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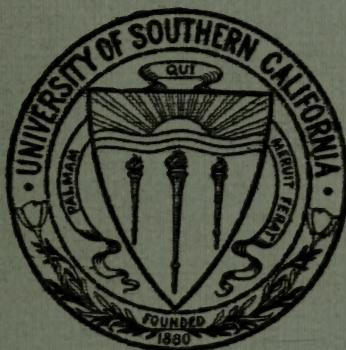




U.S.H.

UNIVERSITY OF SOUTHERN CALIFORNIA BULLETIN

VOLUME IV MARCH 1909 NUMBER 1



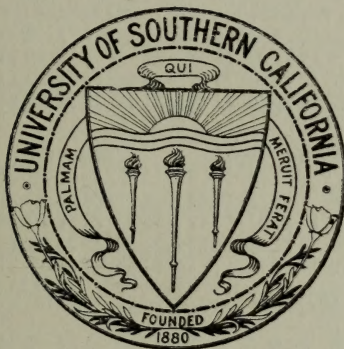
YEAR BOOK *for* 1908-1909

March 1909

UNIVERSITY OF SOUTHERN CALIFORNIA BULLETIN

VOLUME IV

NUMBER 1



YEAR BOOK *for* 1908-1909

*With Announcements for
1909-1910*

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1909 CALENDAR 1910

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CALENDAR

1909-1910

The College of Liberal Arts.

1909		
Sept. 13	Monday	{ Entrance Examinations and Registration for the First Semester.
Sept. 14	Tuesday	
Sept. 15	Wednesday	Instruction begins.
Nov. 25	Thursday	{ Thanksgiving Vacation.
Nov. 26	Friday	
Dec. 20	Monday	{ Christmas Vacation.
1910		
Jan. 2	Sunday	
Jan. 27	Thursday	Day of Prayer for Colleges.
Jan. 28	Friday	{ Mid-year Examinations.
Feb. 2	Wednesday	
Feb. 2	Wednesday	First Semester ends.
Feb. 3	Thursday	{ Entrance Examinations and Registration for the Second Semester.
Feb. 4	Friday	
Feb. 7	Monday	Instruction begins for the Second Semester.
Feb. 22	Tuesday	Washington's Birthday.
Mar. 28	Monday	{ Spring Vacation.
April 3	Sunday	
June 9	Thursday	{ Final Examinations.
June 14	Tuesday	
June 12	Sunday	Baccalaureate Sunday.
June 16	Thursday	Commencement.
June 16	Thursday	Alumni Reunion and Banquet.
June		{ Six Weeks' Summer Session.
July		

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THE UNIVERSITY.

The University of Southern California was founded in 1879, and was formally opened for students in October, 1880. It includes the following colleges each of which has a distinct faculty of instruction.

College of Liberal Arts.

35th Street and Wesley Avenue.

George F. Bovard, A.M., D.D., President.

Roy E. Schulz, A.B., Secretary.

College of Medicine.

737 Buena Vista Street.

W. Jarvis Barlow, A.B., M.D., Dean.

George H. Kress, B.S., M.D., Secretary.

College of Dentistry.

Fifth and Wall Streets.

Lewis E. Ford, D.D.S., Dean.

William Bebb, D.D.S., Secretary.

College of Law.

Exchange Bldg., 3rd and Hill.

Frank M. Porter, A.B., LL.B., Dean.

Gavin W. Craig, LL. B., Secretary.

College of Music.

35th Street and Wesley Avenue.

Walter F. Skeeel, A.B., Dean.

Charles E. Pemberton, Secretary.

College of Oratory.

35th Street and Wesley Avenue.

Beulah Wright, Dean.

Gertrude Comstock, Ph. B., Secretary.

College of Fine Arts.

201 N. Ave. 66.

William L. Judson, Dean.

Pearl Judson, Secretary.

College of Pharmacy.

35th Street and Wesley Avenue.

Walter T. Taylor, Ph. G., Dean.

Charles W. Hill, Ph. C., Secretary.

College of Theology.

35th Street and Wesley Avenue.

Ezra A. Healy, A.M., D.D., Dean.

James Blackledge, A.M., Secretary.

A Preparatory School is maintained in connection with the College of Liberal Arts.

Information concerning any of the colleges, and year-books containing the courses of study, etc., will be mailed upon application to the addresses given above.

FOUNDERS OF THE UNIVERSITY.

These names include all the names of the first Board of Endowment Trustees and the first Board of Directors, and hence may be fairly held to represent the founders.

Asahel Morgan Hough; Edward Fallis Spence; Marion McKinley Bovard; Dr. Joseph Pomeroy Widney; G. D. Compton; Robert Maclay Widney; John G. Downey; P. Y. Cool; Charles Shelling; Edwin S. Chase; J. A. Van Anda; F. S. Woodcock; P. M. Green; Stephen C. Hubbell.

GOVERNMENT OF THE UNIVERSITY.

The government of the University is committed to a Board of twenty-one Trustees. This Board has the power to elect professors and other officers of instruction, to confer degrees, to manage the property of the University Corporation, and to determine the general policy of the institution.

The President has charge of the educational administration of the University and is chairman of the University Council. The principal administrative officers, other than the President, are the Deans, who have immediate charge of the work of the several faculties.

The University Council is a representative body consisting of the President, and the Dean and Secretary of each of the several colleges. It is the duty of the Council to consider the

courses offered by the several colleges with a view to increasing the efficiency and enlarging the range of University work, encourage original research and adjust all questions involving more than one of the colleges, and to advise the President upon such matters as he may bring before it.

ENDOWMENT AND IMPROVEMENTS.

The endowment of the college of Liberal Arts, started a few years ago by the munificent gift of sixty-five thousand dollars by the late Rev. Asabel M. Hough and his wife Anna G. Hough, has steadily grown until it has reached the sum of three hundred and fifty thousand dollars.

Substantial improvements have been made in all of the departments of the University. Many new books have been purchased and placed on the shelves of our Libraries.

The new science halls of the College of Liberal Arts are now well equipped with apparatus strictly up-to-date.

The gymnasium, the three tennis courts, the basketball court, the inclosed athletic field, with its quarter mile cinder path, and the bleachers with thirty-five hundred sittings, furnish ample facilities for physical training and out door sports.

ADVANTAGES OF LOCATION.

Los Angeles is the metropolis of Southern California. Its population of about 300,000 represents almost every State in the Union and many foreign lands.

The climate throughout the year is such that tourists from every quarter come to spend a part of the year, and many return to make this their permanent home.

It is the greatest railroad center on the Pacific Coast. Four transcontinental lines are now complete. A network of electric roads connects the city with the numerous beaches, mountain resorts and outlying towns. These are reached by delightful journeys through orange groves and orchards of semi-tropical fruits characteristic of the region.

Los Angeles is known as the Convention City of the West. Every year brings large bodies of people here for the discus-

sion of every kind of public interest known to science, politics, religion and the humanities.

These great conventions afford the student an excellent opportunity to study the subjects of their discussion, while the resident population of the city is sufficiently large to afford important advantages for the study of sociology and kindred subjects.

The diverse view-points of the groups of students in the nine colleges make their association an important educational factor.

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TERM EXPIRES IN 1910:

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B. C. Cory, A.M.,	235 W. 27th St.
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H. W. Brodbeck, D.D.S.,	221½ S. Spring St.

TERM EXPIRES IN 1911:

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Will A. Knighten, D.D.,	1717 Court St.
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 Stephen Townsend,
 George I. Cochran, A.M., LL.B.
 Ezra A. Healy, A.M., D.D.,
 W. M. Bowen, LL.B.
 Albert J. Wallace,
 Alva W. Adkinson, A.M., D.D.
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(The College of Law.)

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 Thomas W. Robinson, A.B., LL.B.
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 C. E. Locke, D.D., Hotel Fremont

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A. G. Park 214 Merchants' Trust
 E. C. Campbell,
 I. N. Huntsberger, 355 S. Broadway

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J. R. Ross, 223 W. Second

COLLEGE OF ORATORY.

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COLLEGE OF PHARMACY.

Edward Henderson, A.B., Pico and Hoover

COLLEGE OF MUSIC.

G. S. Crouch,

COLLEGE OF THEOLOGY.

A. Inwood, 202 N. St. Louis St.

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Edwin Cooper, A.B., Treasurer

Francis Thompson, A.B. Secretary

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AND

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 Professor of Biology.

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 University, Cumnoek School, 2905 Sunset Place
 Professor of Oratory and Dramatic Art.

Paul Arnold, Ph. M., 1111 S. Hope St.
 Professor of Mathematics.

Roy Edwin Schulz, A.B., 3426 S. Flower St.
 Professor of the Latin Language and Literature.

Festus Edward Owen, A. M., 637 W. 34th St.
 Professor of the Greek Language and Literature.

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 450 Cervera St., Hollywood
 Professor of the English Language and Literature.

Katherine T. Forrester, 706 Huntington Terrace
 Professor of the Spanish Language and Literature.

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 Professor of History.

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 Professor of the French and Italian Languages and
 Literature.

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Museum.
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Director of the Women's Gymnasium.
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- Andrew C. Life, A.M.,** 903 W. 35th St.
Assistant Professor of Botany.
- Elizabeth Yoder,** Graduate of Northwestern
University, Cumnock School 1723 W. 9th St.
Assistant Professor of Dramatic Art and Expression.
- Arthur W. Nye, B.S., M.E.,**
Associate Professor of Electrical Engineering.
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Assistant Professor of Chemistry.
- Hugh C. Willett, A. B.,** 921 37th Place
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- Nancy K. Foster,** 643 W. 32d St.
Lecturer in English Literature.
- Arley G. Tottenham,** 716 S. Flower St.
Instructor in Drawing.

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Adele Stookey, A.B.,	Hermosa Beach
Instructor in French and Italian.	
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Instructor in Zoology.	
Edith L. Bruckman,	1060 W. Jefferson St.
Instructor in French.	
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Assistant in Spanish and Latin.	
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Assistant in Physics.	
Arsen H. Avakian,	3417 Tallman St.
Assistant in Surveying.	
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Assistant in German.	
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Assistant in Chemistry.	
Stanislaus L. Burek,	841 W. 35th St.
Assistant in Chemistry.	
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Librarian.	
Charlotte M. Brown,	3023 Harvard Blvd.
Assistant Librarian.	
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Secretary to the President.	
Nellie L. Vale, A.B.,	Long Beach
Resident Secretary of the Y. W. C. A.	
George O. Runyon, A.B.,	1202 W. 36th Place
Resident Secretary of the Y. M. C. A.	

THE COLLEGE OF MEDICINE.

The Emeritus Faculty.

J. P. Widney, A.M., M.D., LL.D.,	150 W. Adams St.
Emeritus Dean and Professor of Medicine.	

- W. L. Wade, M.D.,** Knox Building, 339½ S. Hill St.
Emeritus Professor of Therapeutics.
- Walter Lindley, M.D., LL.D.,** California Hospital
Emeritus Professor of Gynecology.
- E. A. Follansbee, M.D.,** 332 Laughlin Building
Emeritus Professor of Diseases of Children.
- Henry S. Orme, A.B., M.D.,** 310 Douglas Building
Emeritus Professor of Hygiene and State Medicine

The Senior Faculty.

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- J. H. Utley, M.D.,** Bradbury Building
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- Granville MacGowan, M.D.,** Lissner Building
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- D. C. Barber, A.B., M.D.,** 533 Security Building
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- H. Bert Ellis, A.B., M.D.,** 245 Bradbury Building
Professor of Ophthalmology.
- Melvin L. Moore, M.D.,** 336 Hellman Building
Professor of Obstetrics.
- Geo. L. Cole, M.D.,** 800 Auditorium Building
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- Carl Kurtz, M.D.,** 316 Douglas Building
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Dean of Faculty and Professor of Clinical Medicine.
- Laird Joseph Stabler, M.S., Ph.C.,** 1122 W. 30th St.
Professor of Chemistry.

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- W. A. Edwards, A.M., M.D.,** Security Building
Professor of Diseases of Children.
- Randall Hutchinson, A.M., M.D.,** 324 Bradbury Building
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- F. M. Pottenger, A.M., M.D.** 602 O. T. Johnson Bldg.
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- W. W. Richardson, M.D.,** Lissner Building
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- Hill Hastings, M.D.,** Delta Building
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- L. M. Powers, M.D.,** Health Office, L. A. City Hall
Associate Professor of Hygiene and State Medicine.
- Hugo A. Kiefer, A.B., M.D.,** 266 E. 28th St.
Adjunct Professor in Ophthalmology.
- George H. Kress, B.S., M.D.,** 602 Johnson Building
Secretary of Faculty and Adjunct Professor of Hygiene and
State Medicine.

The Associate Faculty.

- Joseph M. King, M.D.** 433 Douglas Building
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- Ross Moore, A.B., M.D.,** 313 Pacific Mutual Building
Lecturer on Diseases of the Mind and Nervous System and
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Lecturer on Medical Jurisprudence.

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Instructor in Ophthalmology.	
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Instructor in Obstetrics.	
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Instructor in Clinical Obstetrics.	
J. A. McGarry, A.B., M.D.	212 Douglas Building
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Instructor in Electro-Therapeutics and Radiology.	
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E. H. Wiley, M.D.,	Lissner Building
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Instructor in Pharmacology.	
M. H. Ross, M.D.,	16th and Main Sts
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Bertnard Smith, M.D.,	616 Security Building
Instructor in Clinical Medicine.	

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Instructor in Diseases of Children.

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Instructor in Diseases of Ear, Nose and Throat.

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Instructor in Surgery.

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Instructor in Materia Medica.

Howard A. Peairs, A.B., . . . Los Angeles and Aliso Streets
Demonstrator in Practical Pharmacy.

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Dr. John A. Colliver, Chief of the Medical Clinics.

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Dr. Sweet	Dr. Hunter	

Surgery.

Dr. Alden	Dr. McNab	Dr. Garvin
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Women.

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	Dr. R. Bullard	

Children.

Dr. Kate Wilde	Dr. Colliver
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Mind and Nervous.

Professor Brainerd	Dr. Rankin	Dr. Ross Moore
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Eye.

Dr. Bullard	Professor Kiefer	Dr. Harris
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Ear, Nose and Throat.

Professor Hastings	Dr. Kelsey	Dr. Dudley
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Skin and Venereal.

Professor MacGowan	Professor Williams
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Tuberculosis.

Professor Pottenger	Professor Kress	Dr. Thornton
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Dr. E. Seymour.

Drug Room.

F. C. McKinnie, Ph.G.

Out-Patient Service.

Dr. Decker.

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- H. Gale Atwater, D.D.S.,** 1910 E. 4th St.
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- Charles D. Lockwood, A.B., M.D.,** . . . Douglas Bldg.
Professor of Oral Surgery and Anesthesia.
- Joseph D. Moody, D.D.S.,** Laughlin Bldg.
Professor of Ethics and Hygiene.
- Ray D. Robinson, D.D.S.,** Grant Bldg.
Professor of Orthodontia.
- E. L. Leonard, B.S., M.D.,** Auditorium Bldg.
Professor of General and Dental Histology, and General Pathology.
- T. C. Myers, M.D.,** Hellman Bldg.
Professor of General Materia Medica and Therapeutics.
- A. H. Jones, A.B., M.D.,**
Professor of Physics, Chemistry and Metallurgy.
- John L. Kirkpatrick, M.D.,** Bumiller Bldg.
Professor of Anatomy.
- B. F. Eshelman, D.D.S.,** Dental College
Professor of Prosthetic Dentistry and Infirmary Demonstrator.
- C. H. Bowman, D.D.S.,** Dental College
Professor of Crown and Bridge Work.
- M. Evangeline Jordon, D.D.S.,** 215 N. Ave. 66
Associate Professor of Operative and Clinical Dentistry (Children's Teeth).
- H. B. Tebbetts, M.D.,** Douglas Bldg.
Associate Professor of Physiology.
- Clarence A. Jenks, B.S., M.D.,** . . . Douglas Bldg.
Assistant Professor of Physiology.

- J. Walter Gray, D.D.S.** 307 S. Broadway
Assistant Professor of Operative Dentistry.
- Eugene Overton, Esq.,** Trust Bldg.
Lecturer on Dental Jurisprudence.
- A. A. Shaw, D.D.S.,** Bryson Bldg.
Lecturer on Extraction and Anaesthetics.
- David D. Thornton, M.D.,** . . . Merchants' Trust Bldg.
Lecturer on Oral Surgery.
- L. M. Christie,** Dental College
Demonstrator Infirmary.
- Nye W. Goodman, D.D.S.,** . . . Auditorium Bldg.
Lecturer and Demonstrator on Porcelain, Crown and
Bridge Work.
- John C. Hopkins, D.D.S.,** Byrne Bldg.
Lecturer and Demonstrator, Porcelain Inlays.
- Thos. A. Lynch, D.D.S.,** Downey, Cal.
Assistant to the chair of Operative Technic.
- James D. McCoy, D.D.S.** Gross Bldg.
Assistant to the chair of Orthodontia.
- Margaret M. Morris, M.D.,** Dental College
Laboratory Assistant in Histology and Pathology.
- Claire W. Murphy,** Exchange Bldg.
Special Lecturer on Anatomy.
- J. M. Choate,**
Lecturer on Anatomy, Chief Demonstrator of Dissection.
- M. Ellis,**
Assistant Demonstrator of Dissection.
- C. J. R. Engstrom, D.D.S.,** . . . Auditorium Bldg.
Demonstrator in Prosthetic Technic.
- Dr. D. Cave,** Lankershim Bldg.
Special Lecturer Clinical Dentistry.
- E. L. Townsend, D.D.S.,** . . . Wright & Calender Bldg.
Special Lectures and Clinics on Porcelain and Electric Fur-
naces.
- C. M. Benbrook, D.D.S.,** Auditorium Bldg.
Special Lecturer on Clinical Dentistry.
- J. F. Cook, D.D.S.,** 322 Bradbury Bldg.
Dental Society Director.

William Bebb, D.D.S.

Superintendent of the College.

L. M. Packard, D.D.S.

Lecturer on Dental Anatomy.

COLLEGE OF LAW.

Frank M. Porter, A.B., LL.B., Dean.

Evidence and Bailments.

Gavin W. Craig, LL. B., Secretary.

Elementary Law and Blackstone and Real Property.

Frank R. Willis, LL. B.,

Criminal Law, Evidence and Procedure.

Percy V. Hammon, LL. B.,

Criminal Law, Criminal Evidence and Criminal Procedure.

W. A. Cheney, Ex-Judge Superior Court.

Constitutional Law.

Curtis D. Wilbur, Judge Superior Court.

Wills and Probate Law.

W. P. James, Judge Superior Court.

Negligence.

James R. Townsend, Esq.

Patents.

T. W. Robinson, A.M.

Statutory Interpretation, Briefing and the Use of Books.

Hon. Lewis A. Groff,

Agency and Mining Law.

D. K. Trask, Ex-Judge Superior Court.

Private Corporations.

Claire S. Tappan, LL. B.,

Contracts.

Myron Westover, LL. B.,

Commercial Paper.

Walter F. Haas, Esq.,

Municipal Corporations and Public Offices.

George H. Woodruff, Esq.,

Damages.

J. W. Swanwick, Esq.,

Appeals.

- E. W. Tuttle, LL. B.,**
Admiralty.
- James G. Scarborough, A.B.,**
Code Pleading.
- W. T. Craig, Ph. D.,**
Bankruptcy.
- John D. Pope, Esq.,**
Legal Ethics.
- Seward A. Simons, A.B.,**
Insurance Law.
- H. C. Dillon, M.A.**
Common Law Pleading and Equity Jurisprudence.
- Frank James, Esq.,**
California Lien Law.
- Earl Rogers, Esq., D. C. L.,**
Advocacy.
- Wm. W. Phelps, D. C. L.,**
Partnership and Codification.
- Albert Lees Stephens, LL. B.,**
Justice Court Practice.
- Kemper B. Campbell, LL. B.,**
Torts.
- Frank C. Vaughn, LL. B.,**
Equity Pleading.
- James W. Taggart, Judge District Court of Appeal,**
Domestic Relations, Appeals and Appellate Jurisdictions.
- E. W. Camp, A.B., LL.B.,**
Interstate Commerce.
- W. J. Hunsaker,**
Restraint of Trade.
- James H. Hoose, Ph. D.,**
Logic.
- Geo. H. Smith,**
Elements of Jurisprudence and American Common Law.
- Willoughby Rodman, A.B., B. L.,**
International Law.
- Warren E. Lloyd, Ph. D., M. L.,**
Spanish and Mexican Land and Mining Law, Philosophy of Law.

COLLEGE OF MUSIC.

Walter Fisher Skeele, A. B., Dean,	215 Thorne St.
Professor of Pianoforte and Pipe Organ.	
Abraham Miller,	1729 Hope St., S. Pasadena
Voice Culture and Directing.	
Mrs. Norma Rockhold Robbins,	3409 South Hope St.
Voice Culture.	
Mrs. S. J. Brimhall,	417 W. Ave. 52
Piano.	
Miss Carrie A. Trowbridge,	1045 35th Place
Piano.	
Miss Lillian M. Arnett,	947 W. 34th St.
Piano.	
Miss Madge Patton,	1210 Valencia St.
Dunning System.	
Charles E. Pemberton,	678 S. Burlington
Violin, Harmony, Counterpoint and Musical Theory.	
Herr Oskar B. Seiling,	Sierra Madre
Violin.	
William H. Mead,	Blanchard Bldg.
Flute.	
C. S. Delano,	2610 W. 8th St.
Guitar and Mandolin.	

COLLEGE OF ORATORY.

Beulah Wright, Dean,	2905 Sunset Place
Professor of Oratory and Speaking Voice.	
Gertrude Comstock, Ph. B.,	817 W. 23rd St.
Professor of Interpretation, Forensics, Physical Training.	
Elizabeth Yoder,	1723 W. 9th St.
Professor of Dramatic Art, Shakespeare.	
Albert B. Ulrey, A.M.,	1435 W. 22nd St.
Professor of Physiology and Hygiene.	
James Main Dixon, A.M., L.H.D., F.R.S.E.,	Hollywood
Professor of English Language and Literature.	
Dean Cromwell,	1045 S. Boyle Ave.
Director of Physical Education for Men.	
Stella Webster Morgan, A.B.,	934 W. 34th St.
Professor of English Literature.	

Tully C. Knoles, A.M.,
Professor of History.

COLLEGE OF FINE ARTS.

William L. Judson,
Dean.

Arley G. Tottenham,
Professor of Mechanical Drawing.

Elizabeth Waggoner,
Professor of Art Crafts.

Nell Danely Brookers,
Professor of Design and Decoration.

Olive Newcome,
Professor of Art Crafts.

Pearl Judson,
Secretary.

Benjamin C. Brown,
Examiner.

John W. Nichols,
Examiner.

COLLEGE OF PHARMACY.

Walter T. Taylor, Ph. G.,
Dean and Professor of Pharmacy.

Charles W. Hill, Ph. G.,
Professor of Materia Medica and Pharmacognosy.

Laird J. Stabler, M. S., Ph. C.,
Professor of Chemistry and Toxicology.

Albert B. Ulrey, A. M.,
Professor of Botany.

Arthur Maas, Ph. C.,
Associate Professor of Pharmacy.

Ethel W. Graves, A. M.,
Assistant Professor of Inorganic Chemistry.

Andrew C. Life, A. M.,
Assistant Professor of Microscopy.

Howard A. Peairs, A. B.,
Lecturer on Pharmacal Jurisprudence.

Irwin H. Miller, B. S.,
Lecturer on Food and Drug Adulterations.

Dean Cromwell,

Director of Physical Education.

COLLEGE OF THEOLOGY.

Ezra A. Healy, A.M., D.D.,

Dean. Historical and Systematic Theology.

Eli McClish, D.D.,

Christian Evidences.

Rev. James Blackledge, A.M.,

Hebrew Language.

Robert McIntyre, D.D.,

Homiletics.

Matt S. Hughes, D.D.,

Pastoral Theology.

John G. Hill, A.M., S.T.B.,

English Bible.

Festus E. Owen, A.M.,

New Testament Greek.

James Main Dixon, A.M., L.H.D., F.R.S.E.,

Professor of English Literature.

George B. Smythe, D.D.,

Lecturer on Christian Missions.

The College of Liberal Arts.

ADMISSION TO THE FRESHMAN CLASS.

1.—Admission by Certificate.

Candidates for admission to the freshman class must be at least sixteen years of age and must present evidence of good moral character. They must also give, either by certificate or by examination, evidence of preparation in 15 units of preparatory subjects selected from the general list of subjects described on pp. 28-32. These 15 units must be made up of the following:

English,	2 units*
A Foreign Language,	2
Science,	1
Algebra and Plane Geometry,	2
U. S. History and Civics	1
Electives,	7

The electives are determined entirely by the requirements for admission to the college course which the student desires to pursue.

For admission to the Engineering Course the 15 units must include the following:

English,	2 units
A Modern Language,	2
Chemistry,	1
Physics,	1
Elementary Algebra,	1
Advanced Algebra,	1
Plane Geometry,	1
Trigonometry and Solid Geometry,	1
U. S. History and Civics,	1
Freehand Drawing,	1
Electives,	2

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

Candidates who have completed a regular course in the Preparatory School of this University, or in an accredited high school, may be admitted to the College of Liberal Arts without examination, on presenting a certificate signed by the principal. Unconditional credit will be given only for entrance subjects in which the candidate is specifically recommended. Recommendations will be accepted from any school accredited by this University, Leland Stanford Junior University, or the University of California. The faculty reserves the right, however, to require an examination upon any or all of the studies set for entrance, whenever there is doubt that the preparation has been sufficient. To insure entrance without examination credentials should be presented as early as possible before registration.

2.—Admission by Examination.

The regular examination for admission will begin Monday, September 13, 1909, when candidates will be examined in all the required admission subjects not covered by certificate from an accredited school.

3.—Conditional Admission.

Candidates may be conditionally admitted to the freshman class, if they are not deficient in more than twenty semester hours (two units) of preparatory work, but each case is referred to a faculty committee and only by vote of this committee can such admission be gained. They must, however, remove all such conditions before they may obtain junior standing.

Preparatory Subjects.

The following items will serve to indicate both the kind and the amount of work expected in the different preparatory subjects accepted for admission, as well as the units of credit allowed for the same.

1. **English.** A short essay on an assigned subject will be called for, with the purpose of testing accuracy in spelling, punctuation, division into paragraphs, and power of expression in clear and correct English.

The candidate will also be required to give evidence of a thorough study of elementary rhetoric and classic myths; and

will be tested as to his knowledge of the subject-matter, form and structure of the following works (or their equivalent):

Scott's *Lay of the Last Minstrel* and *Ivanhoe*; Hawthorne's *Tales of the White Hills*; Selections from Irving's *Sketch-book*; Lowell's *Vision of Sir Launfal*; De Coverly Papers; Coleridge's *Ancient Mariner*; George Eliot's *Silas Marner*; Carlyle's *Essay on Burns*; Macaulay's *Essay on Warren Hastings*; Tennyson's *Idylls of the King*; Shakespeare's *Merchant of Venice* and *Julius Caesar*. (2 units.)

2. English Literature. With outline history of its development. Chaucer's *Prolog*; Gray's *Elegy*; Wordsworth's *Tintern Abbey*, and *Odes on Intimations of Immortality and Duty*; Milton's *Minor Poems*; Shelley's *Odes To Night and To a Skylark*; Keats *Ode to a Nightingale*; Browning's *Epilogue to Assolando* and *Rabbi Ben Ezra*; Burke's *Conciliation*; Webster-Hayne Debate; Shakespeare's *Midsummer-Night's Dream* and *Macbeth*. (1 unit.)

[Note: When a candidate shall offer, in addition to the above, an equivalent amount of other classics such as may be acceptable to the department of English, another unit will be granted.]

3. Elementary Algebra. This should include the following subjects: The four fundamental operations with emphasis placed on the type-forms in multiplication and division, factoring, highest common factor, and lowest common multiple, fractions and fractional equations, simultaneous equations of the first degree, the binomial theorem for a positive integral exponent, evolution, theory of exponents, radicals, quadratic equations, and the solution of problems involving the various classes of equations. Emphasis should be placed on factoring and on the solutions of equations. (1 unit.)

4. Advanced Algebra. This should include the following subjects: Mathematical induction; the proof and the use of the remainder and the factor theorem; the binomial theorem for a positive integral exponent; evolution, including the extraction of any root of algebraic polynomials, and also of arithmetic numbers; theory of exponents; complex numbers; radicals, and irrational equations; theory of quadratic equations; simultaneous quadratics; inequalities; ratio, proportion and variation;

arithmetic, geometric and harmonic series. Emphasis should be placed on the solution of equations by factoring, and on the demonstration of laws and principles. (1 unit.)

5. **Plane Geometry.** This includes the usual theorems and problems of elementary plane geometry. An important part of the work should be the solution of original exercises including problems in mensuration. (1 unit.)

6. **Trigonometry and Solid Geometry.** The development of the general formulae of elementary plane trigonometry; the theory of logarithms and the use of logarithmic tables; the numerical solution of plane triangles, and of simple problems in heights and distance. The fundamental propositions of solid geometry and especially those of spherical geometry. (1 unit.)

7. **Chemistry.** Laboratory and text-book work for one school year, such as outlined in Remsen's Introduction to the Study of Chemistry, or Newell's Experimental Chemistry. At least four hours per week throughout the year is required of actual laboratory practice in order to complete the amount of laboratory work desired. (1 unit.)

8. **Physics.** The equivalent of one year's work, including both laboratory and text-book work. Accurate notes of the laboratory work should be kept. Gage's Elements, or Carhart and Chute's High School Physics will serve to indicate the amount of text-book study required. (1 unit.)

9. **Botany.** A study in the laboratory and field of types of plant groups. Drawings and notes made directly from the specimens must be submitted as evidence of the character of the work done. A full year's work. (1 unit.)

10. **Zoology.** One year's work on the structure, relationship and habits of animals. Laboratory note-books with drawings will be required. (1 unit.)

11. **Physiology.** An equivalent of Martin's Human Body, —Shorter course. (1 unit.)

12. **Physical Geography.** The study of one of the leading text-books supplemented by at least forty exercises in individual laboratory work. (1 unit.)

13. **Elementary Latin.** For the requirements of Elementary Latin an accurate pronunciation is necessary, a thorough knowledge of regular forms and principles of syntax, a vocabulary of

about fifteen hundred words, and the ability to translate easy prose at sight, and to write simple sentences. These attainments can be secured from the careful study of an elementary text-book and four books of Caesar, together with oral and written composition and occasional practice in sight translation. The examination in composition in 1909-1910 will be based on the second book of Caesar's Gallic War. (2 units.)

14. **Advanced Latin.** For the requirements of Advanced Latin the ability to translate at sight portions of Cicero's orations and Vergil's Aeneid is necessary, familiarity with the principles of the Latin hexameter and the ability to translate a passage of connected English based on Cicero. These attainments can be secured from the careful study of six of Cicero's orations and six books of Vergil's Aeneid, together with very thorough drill in oral and written composition. It is expected that a certified composition book will be presented for entrance credit. The examination in composition in 1909-1910 will be based on the oration Pro Archia. (2 units; without the composition, 1 unit.)

15. **Elementary Creek.** Grammar and Lessons; Anabasis, book I-III; prose composition. (2 units.)

16. **Advanced Greek.** Anabasis book IV; Iliad, books I-III; prose composition; sight reading; review of the Grammar. (1 unit.)

17. **German.** A knowledge of the inflections of articles, nouns, adjectives, pronouns, weak verbs and usual strong verbs; also of the use of the modal auxiliaries, the common preposition, the simpler uses of the subjunctive, and the order of words; the reading and translation of stories and plays, such as Storm's Immense and Benedix's Der Prozess; translation of easy English into German, translation at hearing and pronunciation. (2 units.)

18. **French.** A knowledge of the essentials of grammar, including the inflections of nouns, adjectives, pronouns, regular and common irregular verbs; the use of personal pronouns and the elementary rules of syntax; ability to pronounce accurately and to read smoothly; translation of modern stories and plays, such as About's Le Roi des Montagues and Labiche and Martin's Le Voyage de M. Perrichon; translation at hearing and

at sight; translation of easy English into French. (2 units.)

19. **Spanish.** Grammar, Garner, Monsanto or De Tornos; reading from Matzke's Spanish Readings, Knapp's Spanish Readings, Pepita Jiminez; translation of easy English into Spanish, and simple conversation in Spanish. Special importance attached to a knowledge of Spanish verbs. (2 units.)

20. **English History.** Coman and Kendall or an equivalent. (1 unit.)

21. **Grecian and Roman History.** Myers, or an equivalent. (1 unit.)

22. **Mediaeval and Modern History.** Myers, or an equivalent. (1 unit.)

23. **United States History and Civil Government.** Channing, and Fisk, or an equivalent. (1 unit.)

24. **Freehand Drawing.** The study of light and shade and perspective by drawing and shading with pencil from geometric and simple life objects. ($\frac{1}{2}$ to 1 unit.)

25. **Mechanical Drawing.** The use of drawing instruments in line work, the construction of geometrical problems, and simple detail drawing. ($\frac{1}{2}$ to 1 unit.)

Note—In the case of students graduated from a recommended high school credit may be allowed for such subjects, not designated in this list, as are recommended by the principal and approved by the University faculty.

Candidates who offer subjects in Science will be required to present their note-books in the same.

ADMISSION TO ADVANCED STANDING.

Students from other institutions of recognized collegiate rank may be admitted to such standing and upon such terms as the Faculty may deem equitable, upon presentation of letters of honorable dismissal. Every such candidate is required to present a catalogue of the institution in which he has studied, with a full statement, duly certified, of the subjects he has completed, including subjects passed at entrance as well as those credited. The faculty reserves the right to determine, after a test of at least one semester, the amount of credit which a student may receive.

ADMISSION AS SPECIAL STUDENTS.

Persons of maturer age who desire to take up special work in one department, or in one subject with its related branches, may be admitted as special students, without becoming candidates for a degree; but they may become candidates by satisfying the entrance requirements for a regular course. Such students come under the same regulations as regular undergraduates, and forfeit their privileges by failure to maintain a good standing.

MATRICULATION AND REGISTRATION.

On or before the appointed registration days, in September and February, each student must register at the Registrar's office, and must enter upon a study card the subjects desired for the semester.

The study card, properly filled out and signed by the major professor and the Registrar, must be filed in the office not later than one week after the last appointed registration day. Late study cards will be accepted only upon the payment of a special fee of one dollar. A student desiring to enter any class must present his study card to the instructor for enrollment.

In the choice of subjects, all work necessary to remove conditions must be provided for first; and required subjects must take precedence of elective subjects.

Credentials will be considered at any time of the year, but since in general candidates can not be assured of admission to the University without examination, it is important that credentials be forwarded as early as possible. Blanks for admission may be obtained by application to the Registrar's office.

GRADUATION.

THE DEGREE OF BACHELOR OF ARTS.

The College of Liberal Arts offers as many courses from which the student may elect as there are departments in which a major is offered.

Each course the student may pursue is designed to give a

liberal education and, except in the Engineering course, leads to the degree of Bachelor of Arts (A.B.).

The student must complete one hundred twenty semester hours of college work (exclusive of the requirement in Physical Education), which includes the required subjects, a major in one department, and a related minor.

A semester hour means one exercise a week throughout a semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture, and two hours of preparation or subsequent reading per week, or an equivalent amount of work in laboratory courses.

Fifteen hours per week of recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work. Students may register for as few as thirteen or as many as eighteen hours by making application to the Registrar.

The end of the sophomore year marks a differentiation in the work of the undergraduate course. In the junior and senior years the aim is toward University work in the true sense.

Required Subjects.

In all the courses except in the Engineering Courses, in which the student is a candidate for the bachelor's degree he must complete work as follows

English, Rhetoric I., one year, six hours.

Science, one year, eight hours. (The science may be Chemistry, Zoology, Physics or Botany.)

Mathematics, one year, six hours.

Philosophy, one year, six hours.

Foreign Language, two years, twelve hours. (The language may be Latin, Greek, German, French, Spanish or Italian.)

History or Economics, one year, six hours.

Physical Education, four hours.

The Freshman year should be devoted to the completion of thirty hours of these required subjects.

In the Engineering Courses the work of the four years is required as outlined under Engineering Courses.

Major and Minor Subjects.

Each under-graduate student must select the work of some one department as his major subject, but the selection may be deferred until the second year. The requirements for major work, which range from a minimum of twenty-four to a maximum of thirty hours are stated elsewhere under Courses of Instruction. An equivalent of ten hours' work must be taken in a related subject, known as the minor subject, and selected with the approval of the major professor.

Where a student who has already selected his major subject desires to change it, and is able to meet the requirements of the new major subject, the change can be made, if approved by the professor of the old and new major subjects.

Elective Subjects.

Except for the above required subjects, and the requirements of the major and minor subjects the work required for graduation is elective; but the student will confer with the professor of the major subject, as well as with the President of the University, in selecting such subjects as bear some useful relation to the course he is pursuing.

CLASSIFICATION OF STUDENTS.

Students who have no entrance conditions, and who have completed thirty semester-hours of the freshman year, are classed as sophomores.

Those who have completed sixty semester-hours are classed as juniors.

Those who have completed ninety semester-hours are classed as seniors.

Students who have completed one hundred twenty-four semester hours, including all required work, and a major in one department with a related minor are entitled to receive the degree of Bachelor of Arts.

ABSENCE FROM EXERCISES.

1. Excuse must be rendered for all absences from required exercises.

2. A student who is absent during a semester from more than one-tenth of the whole number of recitations or laboratory periods held in any subject shall be required to pass a special examination in that subject.

3. Where a student is absent from more than one-sixth of the whole number of recitation or laboratory periods, held during a semester in any subject, his registration in that subject is thereby cancelled. In case of such cancellation, however, if the student can show cause for his absence, and if his previous standing be such as to indicate that he can make up his loss and maintain a satisfactory grade of work in the subject, he may present his case to the Faculty and have his registration restored.

In applying this rule absence from the first or last recitation in a study, or consecutive absence in which either the first or last recitation is included, will be counted each as two absences.

4. Students are required to attend three-fourths of all chapel exercises.

EXAMINATIONS AND GRADES.

Regular examinations are held at the close of each semester in the studies that have been pursued in different classes. After the examinations, the parent or guardian of every student receives from the office a report, giving the student's standing for the semester. The general character of the work of the students in their several subjects is indicated by one of six grades, ranging from grade A, denoting the highest excellence, through B, C, D, E, in a descending scale of merit to F, which signifies failure to pass.

A student whose work in a subject is marked conditioned or incomplete is delinquent in that subject. Such delinquency must be made up, in such manner as the instructor may determine, before the close of the year next after that in which the delinquency occurs. If the delinquency be not thus made up, the student is required to take the subject again with a class before he may receive credit for the same. A grade F may be removed only by taking the subject in class again.

When a student has incurred a condition or a failure in a

subject he may not register for more than thirteen hours of new work in the following semester.

OPTIONS IN THE PROFESSIONAL COLLEGES.

When seventy-two hours (including all required work) have been made in the College of Liberal Arts, a student wishing to enter upon his professional studies before graduation from the College of Liberal Arts, may take the studies of the first year in the College of Medicine, and may receive the degree of Bachelor of Arts upon the satisfactory completion of three years' work in the professional course. Students electing this course are supposed to have completed a course similar to course C. or D. in the Preparatory School of the University, that is, requiring Drawing, Chemistry and Physics. At least one year of Latin is also required. (Any of these subjects not offered for entrance should be taken the first year.)

The required subjects in the College of Liberal Arts are the same as those for the regular candidate for the degree A.B., except that Zoology should be the elected Science, and German, the elected Language (provided Latin has been offered for entrance.)

The Pre-Medical Course, (including required subjects) is outlined as follows

Freshman Year.

English, Rhetoric I., throughout the year, 3 hours.

Science, Zoology, throughout the year, 4 hours.

Mathematics, throughout the year, 3 hours.

Language, German (if Latin has been offered for entrance) throughout the year, 5 hours.

History or Economics, throughout the year, 3 hours.

Total, 18 hours per semester.

Sophomore Year.

Philosophy, Psychology, throughout the year, 3 hours.

Language, German, throughout the year, 3 hours.

Elective, (Biology, English and History specially recommended), throughout the year, 12 hours.

Total, 18 hours.

The regulations for the current year shall prevail concerning fees.

When 94 hours (including all prescribed work) have been made, and of these not less than 72 in the College of Liberal Arts, the student may take the studies of the first year of the College of Law, and may receive the degree of Bachelor of Arts upon the satisfactory completion of two years in the professional course.

THE DEGREE OF BACHELOR OF SCIENCE IN THE ENGINEERING COURSES.

The degree of Bachelor of Science in Civil Engineering is conferred upon such candidates as may successfully complete the four years' course in Civil Engineering.

The degree of Bachelor of Science in Electrical Engineering is conferred upon such candidates as may complete the four years' course in Electrical Engineering.

THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts (A.M.) is conferred upon graduates of the College of Liberal Arts of the University and upon others who have had an equivalent training elsewhere on completion of an approved course of graduate study equivalent to thirty semester hours.

At least sixteen semester-hours of the work offered for the Master's degree must be chosen beyond the baccalaureate requirement of the department in which the candidate has previously completed the under-graduate major work. This advanced work will be the major subject. At least six semester hours must be taken in some related department.

The Master's degree may designate the special course pursued—e. g., Master of Arts in Science.

Candidates must register not later than the first Tuesday in October next preceding the date of the final examination.

A thesis embodying the results of investigation on an approved subject in the major department must be submitted and be approved by the Committee on Graduate Study before the candidate may be recommended for a degree.

The subject for the thesis must be submitted to the Faculty for approval through the major professor not later than January 10, and the completed thesis not later than the last Sat-

urday in May, of the year in which the degree is desired. The thesis must be typewritten on paper 8½x11 inches in size, and a copy of the same deposited in the Library.

THE DEGREE OF MASTER OF ARTS AND THE DEGREE OF DOCTOR OF MEDICINE.

Upon students who complete the course in the College of Medicine of the University after receiving the Bachelor's degree from the College of Liberal Arts or other institutions approved by the College, the degree of Master of Arts will be conferred on the following conditions:

1. A candidate for the degree of Master of Arts who is at the same time pursuing the regular course in the College of Medicine must matriculate in the College of Liberal Arts at least two years before receiving the Master's degree. The degree of Master of Arts may then be granted at the same time the candidate receives the degree of Doctor of Medicine.

2. The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

3. The regulations of the College of Liberal Arts for the current year shall prevail concerning fees and thesis.

THE DEGREE OF CIVIL ENGINEER AND THE DEGREE OF ELECTRICAL ENGINEER.

The professional degrees of Civil Engineer and Electrical Engineer are conferred on graduates of this University in the Civil Engineering and Electrical Engineering courses respectively, on the satisfactory completion, in residence, of one year of graduate study, or on having been engaged in the active practice of their profession for at least three years, two of which shall have involved responsibility, and the presentation of an approved thesis showing ability to do independent work.

EXPENSES.**Undergraduate Study.**

Tuition per semester, payable in advance.	\$35.00
Tuition per year (two semesters) if paid in advance	67.00
Tuition for six to ten hours per semester.	25.00
Tuition for five hours or less, per semester	17.00
Gymnasium and physical education (allowing free admission to all inter-class contests), required of all students, per semester	2.00
Gymnasium and physical education without other studies, per semester.....	3.00
Registration fee included in the above, but not subject to rebate.....	5.00
Diploma fee	5.00
Laboratory fees, per semester:	
Each course in Chemistry requiring laboratory work	8.00
Assaying	30.00 to 50.00
Physics:	
1 and 2 each.....	4.00
3 Mechanical	4.00
4 Shop	4.00 to 6.00
Electrical Measurements	6.00
Electrical Engineering:	
2 and 7 Dynamo Laboratory, each...	4.00
Each course in Biology requiring laboratory work	4.00
Surveying, field work, per semester.....	2.50

An account is kept of breakage and an additional charge made therefor.

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the year.

Students who are recommended by a quarterly conference as acceptable candidates for the ministry; young women who are recommended for the work of deaconess by a quarterly con-

ference and by the Conference Board of Deaconesses; and the sons and daughters of ministers in the regular work of any evangelical denomination, may have their tuition fee reduced to one-half the regular rate.

A discount of ten per cent. of the tuition will be allowed when two or more students enter from the same family.

Tuitions paid in advance will be refunded proportionately should the student be forced to leave school on account of sickness. No refund will be made for an absence of less than half a semester.

Graduate Study.

Tuition per semester, payable in advance.....	\$35.00
Registration fee, included in above.....	10.00
Diploma fee	10.00

Students who have received the Bachelor's degree from the University of Southern California will pay only ten dollars per semester and the diploma fee.

The Hodge Hall and University Boarding Clubs furnish board for young men at very reasonable rates. Information concerning membership in these clubs can be obtained upon application.

A dormitory is provided for the young ladies, where wholesome board and cozy rooms can be obtained at reasonable rates.

Board and furnished rooms can be secured in private families at from three to seven dollars per week. Furnished rooms, accommodating two students, cost from four to twelve dollars per month.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not of necessity so great as to be burdensome to persons in moderate circumstances.

The Young Men's Christian Association conducts a free rental bureau for the benefit of all students and has all available rooms in the vicinity of the University campus listed and on file. The Young Men's Christian Association and the Young Women's Christian Association also conduct an employment bureau for the purpose of aiding needy and worthy students who are desirous of earning a part of their expenses while in school. Besides the odd jobs, permanent positions are secured for students. The general secretary of either association will

be glad to answer any requests for information addressed to them.

GENERAL INFORMATION.

The College of Liberal Arts of the University of Southern California is situated in Los Angeles, about three and one-half miles southwest from the business section of the city. The College buildings are accessible by three lines of street cars, the Main Street, University and Los Angeles Interurban lines. This is one of the most beautiful and rapidly growing residence portions of Los Angeles. The campus, comprising ten acres, has been improved by cement sidewalks and street grading on all sides, and a lawn in front of the main building. The University Methodist Episcopal Church is located near the campus, and is one of the most prosperous churches in the city. The Baptists and Presbyterians also have churches in the near vicinity. These advantages, together with fine public school privileges, make the University section of the city a very desirable place of residence for families seeking educational opportunities.

Religious Privileges.

The moral atmosphere surrounding the student is exceptionally good. The Young Men's Christian Association and the Young Women's Christian Association are active and effective in social and religious life.

In addition to the daily chapel exercises, courses of special sermons are delivered from time to time. These privileges constitute a good Christian atmosphere in which to lay the foundation of character. Students are expected to attend some church each Sabbath, and are advised to join some Sunday class for the study of the Bible.

The University provides, during the College year, a free course of lectures dealing largely with biblical subjects.

Ladies' Auxiliary.

This organization, formed during 1906-1907 of more than thirty ladies interested in the welfare of the University, has been actively engaged in furthering the interests of the University.

Literary Societies.

The Aristotelian Literary Society for men is the oldest of the societies connected with the College. It has a large and well furnished hall in which to hold its meetings.

The Comitia, also for men, is in a flourishing condition.

The Athena and Clionian Societies are for young women. They have finely furnished halls, and are doing excellent work.

Library and Reading Room.

The library is large and well lighted, carpeted, and furnished with shelving sufficient to hold about ten thousand volumes, with new tables and chairs for the convenience of the students. The number of volumes actually accessioned, public documents, and pamphlets, is nine thousand. The largest recent addition to the library is the "Dean George Cochran, D. D., Memorial Library," placed in the University by his son, George I. Cochran. Volumes chosen with special care to meet the needs of the various departments of the University have been added to the library during the year.

The Museum.

An extensive collection of specimens in mineralogy and geology has been accumulated during the past years, by donations and purchase. Professor Dickinson, the first curator, opened the museum and classified it, making many donations from his own excellent private collection.

A few years ago the trustees purchased from Dr. Stephen Bowers a large collection of geological, mineralogical and archaeological subjects.

The Rev. C. R. Pattee, D. D., has donated about five hundred species of West Coast shells, a valuable geological, paleontological, mineralogical and conchological collection.

The late Mrs. Mary Wright has bequeathed to the University a very valuable collection of geological specimens.

Physical and Electrical Engineering Laboratories.

The departments of Physics and Electrical Engineering occupy nine rooms on the first floors of the main building and Science

Hall. These have been planned and equipped exclusively for the departments and are suited to the purpose for which they are used.

The Laboratories set apart for the Departments consist: (1) General Physical Laboratory. (2) Electrical Laboratory. (3) Photometry room. (4) Physical Optics. (5) Dynamo and Motor room. (6) Research room. (7) Shop. (8) Battery room.

The equipment is furnished by the best American and European makers. It is of recent purchase—modern and best quality. The department of General Physics is very complete. For advanced work in Heat and Light there are several pieces of fine apparatus. In Mechanics and Electricity there is ample for advanced work of high order. Special mention may be made, (1) Apparatus of precision by Gartner & Co.; (2) Resistance Boxes, Meter & P. O. Bridges, Potentiometers, Dynamometers, Standard cells, Ballistic and moving coil Galvanometers by Leeds Northrup Co.; (3) Weston Standard Ammeters and Voltmeters, Permeaters by Nalder Bros., London, etc.; (4) Spectrometers, Spectrophotometers, prisms and gradings; (5) Direct current and Alternating current generators, Direct Current and Induction motors, 2. Rotary converters, Transformers, Meters, Switchboards and Switching devices.

The General Laboratory is furnished with a number of Standard reference works on Physics.

The Chemistry Building.

The department of Chemistry occupies the new building erected in the southern portion of the campus during the summer of 1907. The laboratory for general chemistry will accommodate one hundred ten students; that for quantitative chemistry forty students; that for organic chemistry twenty-five students. The laboratories are thoroughly equipped with modern laboratory tables, water, gas, apparatus and chemicals; they contain a large number of hoods and all of the conveniences of a modern laboratory. The balance room is a separate room, well lighted and equipped with twelve fine analytical balances. The store-room is accessible from the different working laboratories and is supplied with a large quantity of apparatus and chemicals of the best make. A special research

laboratory accommodating twenty-five students is thoroughly equipped with storage batteries for electro-chemistry, also with combustion apparatus and special apparatus for determining molecular weight. Another laboratory is equipped for investigations on oil and gas. The equipment consists of stills, hydrometers, viscometers, Atwater's bomb calorimeters for heat determination, Junker's patent gas calorimeters, Hempel's gas apparatus, Elliot's sulphur apparatus and a thermo-electric pyrometer. There are also four additional research laboratories.

Assay and Metallurgical Laboratory.

This laboratory occupies a large room in the new Chemistry Building. The equipment consists of rock crushers, ore grinders of several kinds, amalgamating fans, etc., all driven by electricity. The furnaces are of the latest type, using gas for fuel. The equipment includes all the necessary apparatus for all kinds of assay work. The equipment includes apparatus for concentration and amalgamation tests, as well as a complete cyanide and chlorination plant. Special facilities are afforded for the electrolytic-reduction processes. The laboratory is modern in every detail.

The Biological Laboratories.

The entire second floor of the new north wing of the main building is devoted to the biological laboratories and lecture room. The laboratories are so planned that each student has abundant light, 110 feet of desks face immediately to the north. Each student is supplied with a heavy single desk of slash grained pine, containing two drawers and microscope locker, each with Craig combination locks.

The Zoological Laboratory, 34x45 feet, contains now forty-seven single desks and a large demonstration table 4x11 feet with drawers and cupboards on each side for supplies. The laboratory is provided with blackboard, glass cases for books, reagents and specimens; a sink, aquarium and drip for keeping living specimens. Each student is furnished a compound microscope, BA 2 or BB 2, dissecting instruments and necessary materials for dissection and study.

The Botanical Laboratory is thirty by forty-five feet. It contains forty-four single desks with drawers, locker and Craig combination locks for each; a large demonstration table; cases for twenty thousand herbarium specimens, books and supplies; blackboards, sinks, aquarium and drip. A compound microscope, dissecting instruments and materials are furnished each student.

The Laboratory for Bacteriology and Physiology is 29x46 feet, facing the north. It is supplied with autoclave, Arnold and hot air sterilizers, incubators, glassware and all other necessary equipment for work in bacteriology. There are thirty-one single desks in this laboratory, a large demonstration table, two hoods and cooling chamber, sink, tank, tables, cupboards and case for reagents and supplies. All the necessary materials, apparatus and instruments including BB8 Bausch and Lomb microscopes are furnished the student. For Physiology the laboratory is supplied with all the necessary reagents and apparatus such as microscope, haemocytometer, dissecting instruments, etc., for successful laboratory work. A complete set of the Harvard Physiological apparatus has been added. For Histology and Embryology the student is supplied with BB8 microscope and has the use of the Minot automatic rotary microtome, Bausch and Lomb's automatic laboratory microtome, and all reagents necessary to carry on successfully this work.

The research laboratory, 15x17 feet, adjoins the office of the department which is also 15x17 feet. The equipment of these rooms is such as adapts them to advanced work along special lines. The best microscopes of German and American make are available, including Bausch and Lomb, CC8, Zeiss IIa, with achromatic and a set of apo-chromatic objectives with compensating eye pieces. Other microscopes of the Leitz and Spencer types, also imbedding baths, centrifuge, camera, numerous microscope accessories and instruments are provided.

The lecture room is 32x36 feet with raised seats. It has a seating capacity of about two hundred and is provided with sky light and fitted with screens for darkening to adapt it to the use of the electric projection apparatus and stereopticon which form part of the equipment. The lecture desk which is fitted with drawers and cupboards can be adjusted instantly

for gas or water for demonstration purposes. This room as well as all others is well supplied with electric lights.

The wide halls have been provided with glass cases in which are placed a large collection of birds, mollusks and alcoholic specimens for demonstration and study. The collection of mollusks is very complete, representing over eighteen thousand specimens.

Athletics and Physical Culture.

The Faculty of the College of Liberal Arts, recognizing that physical culture is both hygienic and educative, desires to encourage every reasonable effort in the direction of physical development consistent with strong manhood and womanhood. On its hygienic side it should aid the body in all its functions, develop a symmetrical form, correct deformity as far as possible, and afford recreation. In its educative function it should afford the discipline necessary for self-control, both mental and moral.

There are two active tennis clubs with three well kept courts.

Gymnasium and Athletic Grounds.

Athletic sports are encouraged for their value in developing the body, in furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise.

The gymnasium has been fitted with appliances for the proper development of the body. The necessary apparatus of the newest and most approved designs has been provided. The director has made preparations for the training in the gymnasium of both the young men and young women, who will have separate lockers and baths and use the building at different periods of the day. The students have all the advantages of the gymnasium, with baths, lockers and dressing room accommodations.

A complete equipment is provided for each form of exercise. Galleries will afford audience room for special gymnastic exercises when such are open to the public.

Each student, on entering the department, undergoes a thorough physical examination, in order that his physical condition may be known to the director, and suitable exercise prescribed. Various strength tests and measurements are given;

the heart, lungs and eyes are examined, and the utmost caution used in the advice given regarding individual exercise. One examination during each semester is required, the latter demonstrating any improvement or change in the student's physical condition. Anthropometric cards and charts are plotted for students when desired.

Athletic Contests.

All athletic and team contests are under close supervision of the director and no student is permitted to compete in games or contests whose physical examination shows that he or she is unfit.

Any person who desires to enter athletic contests must attain a certain standard of scholarship before being permitted to participate.

Gymnastics for Women.

Before entering upon this training every young woman is given a thorough physical examination by the director, Miss Vanderpool, in order that only such exercises may be given as are suited to the student's individual needs. If owing to any physical inability to take the work with the regular classes it seems necessary to take special corrective work, private instruction may be arranged for.

The regular course includes gymnastics, athletics and physical culture. A combination of the Swedish and German system of gymnastics is used.

The gymnasium is well equipped with apparatus. All work must be done under the supervision of the Director.

The Athletic grounds are adjacent to the gymnasium and participation in out-door sports is expected of all young women taking physical training. They may elect tennis, volley-ball, or basket ball. Steps are being taken to secure a hockey field, and it is hoped that hockey will soon be one of the regular out-door sports. The University basket ball team is a member of the Young Womens Basket Ball League of Southern California, and the young women who show greatest proficiency in basket ball are chosen to represent the University in intercollegiate games.

Students are required to provide themselves with a special suit for gymnasium exercises. The Director must be consulted in this matter, in order that there may be uniformity of costume.

Scholarships.

The Hugh Johnston Scholarship.

This scholarship was founded by Mrs. Anna H. Johnston, of Pasadena, in memory of her deceased husband, and is for the benefit of needy students. Mrs. Johnston will name the incumbent when she desires. Otherwise this will be done by the authorities of the University.

The Spence Scholarship.

This scholarship was founded by the Hon. E. F. Spence in his life time, and is devoted to the use of needed students in the San Diego district, upon the recommendation of the District Superintendent of that district.

The A. C. Hazzard Scholarship.

A thirty-year scholarship founded by Rev. A. C. Hazzard, of Whittier, for the benefit of students preparing for Christian work.

The A. M. Peck Scholarship.

Founded by A. M. Peck of Compton.

The Poplin Scholarship.

Founded by F. L. Poplin of Los Angeles. The incumbent to be named by the founder.

The Ontario Scholarship.

For the benefit of graduates of the Ontario High School.

Zana E. Stevens Scholarship.

Founded by Rev. F. G. H. Stevens, September 16th, 1907, in memory of Zana E. Stevens, nee Terpenning, of the class of 1901. This scholarship is to be filled by a member of the J. O. C. Class of the First Methodist Episcopal Church of Santa

Monica, of which Mrs. Stevens was the organizer and teacher. The incumbent is to be named by the founder when he so desires, otherwise by the Presiding Elder of the Los Angeles District and the authorities of the University. In case no member of this J. O. C. Class is eligible, the incumbent shall be chosen from any J. O. C. members who apply for same. In case none such apply, the incumbent shall be chosen from any female students who apply.

The A. M. Hough Scholarship.

Founded by Mrs. Anna G. Hough May 7, 1908, by the payment of one thousand dollars. This scholarship is to be perpetual, and is to be used to aid some student each year in the College of Liberal Arts who is preparing to enter the ministry of the Methodist Episcopal Church. In case no such student should apply, the President of the University is authorized to use the scholarship to benefit any worthy student needing such help.

Others contemplate the establishment of prizes and scholarships, and it is earnestly hoped that soon a goodly number can be offered. Friends of the school can greatly add to its attractiveness in this way.

Prizes.

The Lottie Lane Prize.

This prize, established by Mrs. Charlotte A. Thomson as a memorial to a deceased daughter, is an elaborate gold medal, to be presented each year at Commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole college course. Students who have taken more than four academic years to complete the course or those who have received credit for work done elsewhere than in this College, are not eligible for this prize. This medal was awarded in 1908 to Zula F. Brown

The Oratorical Prize.

The Rev. George R. Graff and wife, give fifty dollars annually to be awarded to the man who wins the first place in the local oratorical contest.

The Phi Alpha Fraternity gives an additional annual prize

of twenty-five dollars for the best oration delivered in the local contest by an undergraduate; the Oratorical Association offers a second prize of fifteen dollars and a third prize of ten dollars.

The first prize was awarded in 1908 to Orwyn W. E. Cook.

Gifts to the University.

The Hough Fund. This is a fund of \$65,000 given by Rev. Asabel M. Hough, deceased, and his wife, Anna G. Hough, of Los Angeles. It is to be held by the University in perpetuity, and the income is to be used for current expenses of the College of Liberal Arts, or as the Board of Trustees may annually direct.

The Hazzard Professorship. Rev. A. C. Hazzard has given to the University, property valued at \$30,000 for the endowment of a professorship in English Bible.

The Merryman Professorship. Mr. T. D. Merryman has given to the University property valued at \$25,000 for the endowment of a professorship in Mathematics.

Hartupee Gift. This gift consists of \$22,500.

For further information address,

UNIVERSITY OF SOUTHERN CALIFORNIA,

Los Angeles, California.

Medical Department.

The Medical Department which has been connected with the University has by mutual agreement become affiliated with the University of California.

Courses of Instruction.

BIOLOGY.

Professor Albert B. Ulrey.

Assistant Professor, Andrew C. Life (Botany).

Chester H. Bowers, Instructor (Zoology).

Laboratory Assistants, Chas. L. Parmenter, Percy S. Barnhart.

Courses adapted to the needs of students who do not major in biology but desire some knowledge of organic nature and training in scientific methods are: General Zoology or General Botany and Bionomics.

Major Work: (a) **Animal Biology**, courses 1-6; General Biology, courses 1 and 2; (b) **Plant Biology**, courses 1-5; General Biology, courses 1, 2 and 6. Students with special needs may substitute certain biological courses for those regularly scheduled.

The courses in General Zoology, Physiology, Bacteriology, General Botany and Bionomics will be offered each year. Other courses given will be determined by the available time of the instructors and the needs of the students of the department.

Two or more assistants are selected each year from the advanced students of the department who maintain a high standard of scholarship and are otherwise qualified for the work.

For equipment see page 00.

ANIMAL BIOLOGY.

1. **General Zoology.** Laboratory study of representative types of invertebrate and vertebrate animals from the simplest to the most complex. A series of lectures co-ordinating the laboratory work and dealing with the general problems of biology. The course includes a study of animal structure, functions, relationships and adaptation to environment. The student receives instruction in the use of the microscope, dissecting apparatus, and is directed in the study of animals in their native environment. Ten hours laboratory work and lectures

per week, throughout the year. **Four hours, both semesters.** 2-3:50, Monday, Tuesday, Wednesday, Thursday.

2. **Histology.** The microscopic anatomy of animal tissues. Methods of preparation of tissue with practice in **fixing**, sectioning, staining and mounting. Laboratory work, lectures and recitations, six hours per week, one semester. Prerequisite Course 1. **Three hours either semester.**

3. **Embryology.** The general course of development of one of the higher vertebrates. Special study of the early stages of development of the organs. Embryological methods and practice in serial sectioning. The lectures deal with the general problems of embryology. Six hours per week, one semester. Prerequisites Courses 1 and 2. **Three hours, either semester.**

4. **Physiology.** Lectures, laboratory work and recitations on the activities of living organisms. Special study of the physiology of the human body. Six hours per week, one semester. Prerequisites Course 1 or Plant Biology 1. **Three hours, first semester.** 8-9:50, Monday, Wednesday, Friday.

5. **Anatomy of Vertebrates.** Dissection of types of the higher vertebrates; quizzes, recitations and lectures. The course is primarily for preparatory medical students. Six hours per week are required in the laboratory, one semester. Prerequisite Course 1. **Three hours, either semester.**

6. **Systematic Zoology.** The course deals with certain groups of vertebrates with special reference to morphology and relationships. Laboratory study, field work and lectures. Six hours per week, one semester. Prerequisite Course 1. **Three hours, either semester.**

7. **Advanced Physiology.** This course is given in the College of Medicine.

8. **Special Zoology.** Investigation of some topic of limited scope. This course is planned to meet the needs of each student prepared to pursue it. Six hours per week, throughout the year. Prerequisite Courses, 1, 2, 3, 4 and 5, or their equivalent. **Three hours, both semesters.**

PLANT BIOLOGY.

1. **General Botany.** The course comprises a study of typical plants representing the vegetable kingdom. The first

semester as well as a part of the second is devoted to Thallophytes and Archegoniates; the remainder of the second semester to Spermatophytes. Laboratory study, field work and lectures. Ten hours per week throughout the year. **Four hours, both semesters.** 10:25-12:10, Monday, Tuesday, Wednesday and Thursday.

2. **Plant Anatomy and Histology.** The minute structure of the systems of tissues. Microscopical technique in preparing permanent mounts. Laboratory work and lectures. Six hours per week, one semester. Prerequisite Course 1. **Three hours, either semester.**

3. **Plant Physiology.** Experimental work on the physiology of plants, lectures and supplementary reading. Six hours per week, one semester. Prerequisite Course 1. **Three hours, either semester.**

4. **Morphology of Bryophytes and Pteridophytes.** A critical morphological study of typical representatives of Bryophytes and Pteridophytes, their development from the germinating spore to the adult. Special attention is given to the relationships of the groups as indicated by their structure, and to the phases of alternation of generations illustrated by the types studied. Six hours per week, one semester. Prerequisite General Botany. **Three hours, either semester.**

5. **Ecology and Taxonomy.** A study of flowering plants (spermatophytes) in the local flora. The course deals with the relationship of plants to their environment; affinities indicated by their structure, and a brief consideration of pedigree-cultures. Six hours per week, one semester. Prerequisite General Botany. **Three hours, either semester.**

GENERAL BIOLOGY.

1. **Bionomics.** A course of lectures dealing with the general principles of biology. The problems of inheritance, development and sex are considered from the cytological standpoint throughout the first semester. Variation, heredity, selection, regeneration and kindred topics are studied during the second semester. Two hours per week, throughout the year. Prerequisite General Zoology or General Botany. **Two hours, both semesters.** 8:55, Tuesday and Thursday.

2. **Bacteriology.** The course consists of a study in the laboratory and by means of lectures of the nature of the bacterial organism; its relation to disease, methods of cultivating and isolating; inoculation experiments, staining of sections, examination of water, etc. Six hours per week, one semester. Prerequisite Botany. 1. Or Zoology. 1. **Three hours, second semester.** 8-9:50 Monday, Wednesday, Friday.

3. **Hygiene and Sanitary Science.** A course of lectures and laboratory demonstrations on (a) the improvement and preservation of health, and (b) the applications of science in the home. Open to all students. **Two hours, either semester.**

4. **Nature Study.** A series of illustrated lectures on the study of living objects. The course affords opportunity for the student to learn something of the more common objects of nature and how to study them profitably. Open for credit to students who have not previously pursued any courses in biology. **Two hours, either semester.**

5. **Experimental Biology.** The course consists of a series of experiments on organisms to determine their response to conditions varied from those normal to the plant or animal. (a) Variation; (b) Hybridization; (c) Regeneration. The work must be continued throughout one year. It may be made the basis of a graduation thesis. Prerequisite, eighteen hours of Biology. **Three hours, both semesters.**

6. **Seminar.** The advanced students and instructors of the department meet two hours per week for reports on special investigation and present-day problems of biology. **One hour, both semesters.**

7. **Journal Club.** Reports on the current literature of biology, one hour per week throughout the year.

CHEMISTRY.

Professor Laird Joseph Stabler.

Assistant Professor Ethel W. Graves.

Laboratory Assistants, Clarence E. Jones, Stanislaus L. Burek.

Courses 1, 2, 3 and 4 are prerequisite to all other courses in Chemistry.

In all laboratory courses except Course 14, a laboratory deposit of thirteen dollars per semester for each course is re-

quired. Of these charges, five dollars per semester, less breakage, is returnable. In Course 13 a fee of twenty dollars is charged, and in addition a deposit of ten to thirty dollars is required to cover cost of material consumed.

1. **General Inorganic Chemistry—Non-metals.** Lectures and recitations with illustrative experiments, and study of a manual. Smith's General Inorganic Chemistry. Usual prerequisite, Marticulation Chemistry. To be taken in connection with Course 3. **Three hours, first semester.** 1:05, Wednesday, Thursday, Friday.

2. **General Inorganic Chemistry—Metals.** A continuation of Course 1, together with an introduction to the study of Qualitative Analysis. To be taken in connection with Course 4. **Three hours, second semester.** 1:05, Wednesday, Thursday, Friday.

3. **General Inorganic Chemistry—Laboratory.** A series of experiments illustrating the general laws of chemical action, and designed to supplement Course 1 and be taken in connection with it. Laboratory Guide, Alexander Smith's Outline of General Chemistry. Six hours per week in the laboratory. **Two hours, first semester.** 1:05-3:50, Monday, Tuesday.

4. **Qualitative Analysis.** A laboratory course in elementary qualitative analysis, with occasional lectures and recitations. Prescott's Qualitative Analysis. Six hours per week in the laboratory. **Two hours, second semester.** 1:05-3:50, Monday, Tuesday.

5. **Quantitative Analysis.** Laboratory practice in gravimetric and volumetric determinations, with occasional lectures and recitations. Olsen's Quantitative Chemical Analysis. Nine hours per week in the laboratory. **Three hours, both semesters.** Hours to be arranged.

6. **Advanced Qualitative Analysis.** A laboratory course involving difficult qualitative separations, and detection of some of the rare elements. Weekly lectures and discussions. Prescott and Johnson's Qualitative Analysis is recommended for reference. **Three hours, either semester.** Hours to be arranged.

7. **Organic Chemistry.** Lectures and recitations on the chemistry of the carbon compounds. Remsen's Organic Chemistry. **Two hours, both semesters.** 1:05, Monday, Tuesday.

7a. **Organic Preparations.** A laboratory course in the prep-

aration of typical carbon compounds. Open to students who have completed Courses 1, 2, 3, 4, 5 and 7. **Two hours, both semesters.** Hours to be arranged.

8. **Mineral Analysis.** Gravimetric and volumetric analysis of representative minerals, ores and alloys. Prerequisite, Course 5. **Four or Five hours, either semester.**

9. **Physical Chemical Measurements.** A laboratory course in physical-chemical methods. Molecular and atomic weight determinations by vapor density, boiling-point and freezing-point methods. Determination of conductivity of electrolytes, reaction velocity, isothermal and chemical equilibrium. Prerequisite, Course 5. **Two hours, either semester.**

10. **Quantitative Analysis of Agricultural Products.** Systematic analysis of fertilizers, dairy products, etc. Prerequisite, Course 5. **Four or five hours, either semester.**

11. **Medical Chemistry.** A laboratory course, including urine analysis, toxicology and food analysis. Designed especially for students looking forward to medicine or pharmacy. Open to students who have completed or are taking Courses 5 and 7. **Three hours, either semester.**

12. **Food Analysis.** A laboratory course in Chemistry of meat and meat products, edibles and fats, dairy products, cereal products, saccharine products, canned vegetables, cocoa, tea, coffee, spices, vinegar, flavoring extracts, fruits and fruit products, fermented and distilled liquors, baking powders, food preservatives and coloring matter. Open to students who have completed Courses 5 and 7. **Two hours, either semester.**

13. **Assaying.** This course comprises silver and gold extraction by scorification and crucible methods; fire assay of copper, lead and tin, extraction of gold from ores by the amalgamation, the chlorination, the cyanide and the electrolytic process. **Two hours, either semester.** Hours to be arranged.

14. **Seminary.** Papers and discussion on assigned topics, with lectures on subjects of general chemical interest. Open to advanced students. **One hour, both semesters.**

Major Work: Sixteen semester hours in addition to courses 1-4.

ECONOMICS AND SOCIOLOGY.

Professor Rockwell D. Hunt.

ECONOMICS.

1. **Principles of Economics.** A comprehensive introduction to economic study, based upon Seligman's text and supplemented by lectures, assigned readings, and student exercises. The topics studied include: the elements of economic life; the nature of value, and its relations to distribution; the theory and practice of exchange, money, credit and banking; the factors of production; the social ordering of wealth. **Three hours, both semesters.** 10:25 Monday, Wednesday, Friday.

2. **Public Finance.** A study of budgetary science, the principles and practice of taxation, public expenditures, and financial administration. Adams' Science of Finance used as a basis. **Three hours, second semester.** Not given in 1909-10.

3. **Money and Banking.** Origin and evolution of money, with special attention to the problems of metallic and paper money; history and theory of banking, with examination of leading systems and special problems. **Three hours, first semester.** 8:55 Monday, Wednesday, Friday.

4. **Economic Geography.** A survey of the history and present status of industry and commerce in the principal countries; natural advantages in the world market, and national policies in development of resources, with special attention to the United States. **Three hours, second semester.** 8:55 Monday, Wednesday, Friday.

5. **Transportation and Communication.** The theory and history of transportation; development of the railroad, its organization, management and consolidations. Ocean and inland waterways. Problems of rebates, public regulation, etc. Postal service and express companies. Johnson's American Railway Transportation and his Ocean and Inland Water Transportation are used as guides. **Two hours, first semester.**

Not given in 1909.

6. **Labor Problems.** The important labor problems of the day, with special reference to American conditions. Growth of labor organizations, strikes and lockouts, industrial arbitration, profit-sharing, woman and child labor, immigration, etc. **Three**

hours, second semester. 2 p. m. Monday, Wednesday, Friday.

7. **History of Economic Thought.** Development of economic thought from classical antiquity, with discussion of different schools of economists. Extensive readings from numerous writers. Open only to advanced students. **Three hours, second semester.** Not given in 1909-10.

8. **Recent Economic Thought.** A comparative study of theories of leading economists of the present day, with special reference to the problems of the distribution of wealth. Open only to advanced students. **Two hours, both semesters.** Hours to be arranged.

9. **Municipal Problems.** The rise of the modern city; economic, social and governmental problems presented. Regular work is supplemented by an extensive series of special lectures by leading practical experts of Los Angeles. Investigations and reports on special concrete problems. **Three hours, first semester.** 2 p. m. Monday, Wednesday, Friday.

Municipal Problems.

Special Lectures Given During 1908-1909.

Congressman James McLachlan—"Legislating for the Nation."

Judge N. P. Conrey—"Relations of the City to the State."

Gen. F. C. Prescott—"Uncle Sam's Land Office Business."

R. H. Mannahan—"Work of the City Electrician."

Prof. Wm. R. Bowker—"Law of Diminishing Returns as Affecting Street Railway Enterprises."

Supt. E. C. Moore—"Task of Educating the Masses."

Mrs. Willoughby Rodman—"Rightful Heritage of City Children."

Wm. M. Bowen—"Safeguarding the People's Interests"

Wm. Humphries—"Uses of City Parks."

Franklin S. Wade—"The Question of Municipal Gas."

Dr. Dana Bartlett—"For a Better City."

E. J. Harper—"The Ministry of Trees."

John F. Roche—"Civic Significance of Life Insurance."

W. C. Mushet—"Science of Municipal Accounting."

Walter Mallard—"Problems of City Taxation."

W. B. Mathews—"How a City Is Bonded and Why."

D. E. Luther—"For the Uplift of Young Men."

George H. Stewart—"Publicity of the City's Resources."

Dr. John R. Haynes—"Efficiency and Civil Service."

Harry E. Andrews—"The Press and the Public."

J. D. Radford—"The Banks and the People."

Col. Randolph Miner—"Development of Artificial Harbors."

Capt. A. A. Fries—"Significance of San Pedro Harbor."

Note.—Economics 1 is recommended to students taking the six hours requirement (History or Economics) in this department. It is prerequisite to other courses in Economics. Courses 5 to 9 are designed for students above the Sophomore year.

SOCIOLOGY.

1. **Principles of Sociology.** Elements of social theory The structure, development and activities of human society. A comprehensive study of the social process and social ends, with frequent application to concrete conditions. **Three hours, first semester.** 11:20 Monday, Wednesday, Friday.

2. **Social Problems.** Studies in practical sociology, based on Carroll D. Wright's text, with lectures and reports. Problems of population, the family, the modern city, temperance, crime, poverty, etc. Each student investigates some concrete local question and presents results. **Two hours, first semester.** 11:20 Tuesday, Thursday.

3. **Charities and Corrections.** Studies in social pathology. Poverty and philanthropy, the dependent classes, public and private administration of charities. The class visits charitable and reformatory institutions in Los Angeles and vicinity to study conditions and methods of social betterment. **Two hours, second semester.** 11:20 Tuesday, Thursday.

4. **Social Theories.** A comparative study of the writings of leading sociologists of the present day. Extensive library work and frequent student reports are among the requirements. Open only to advanced students. **Three hours, second semester.** 11:20 Monday, Wednesday, Friday.

Note.—Sociology 1 is prerequisite to other sociology courses, except by special permission. Major work: **Thirty semester hours.**

ENGLISH.

Professor James Main Dixon.

Associate Professor Stella Webster Morgan.

Dr. Ezra A. Healy, Lecturer in English Literature.

Nancy K. Foster, Lecturer on Nineteenth Century Poets.

A.**Rhetoric.**

1. **Rhetoric and Themes.** First semester devoted to expository writing based on Wendell's English Composition. Second semester, detailed study of the Forms of Discourse, following Hersey, Nutter and Greenough's Specimens of Prose Composition. **Three hours, both semesters.** Required of freshmen. Sec. A, 11:20 Monday, Wednesday, Friday; Sec. B, 1:05 Monday, Wednesday, Friday; Sec. C, 8:55 Monday, Wednesday, Friday. Professor Morgan.

2. **Rhetoric and Journalism.** With practice in writing editorials and book reviews. Text: The King's English (Oxford University Press.) **Two hours, first semester, 1:05 Monday, Wednesday.** Professor Dixon.

3. **Rhetoric and Public Speaking.** With practice in making briefs and writing an oration. Text: Shurter's Masterpieces of Modern Oratory. **Two hours, second semester, 1:05 Monday, Wednesday.** Professor Dixon.

4. **Seminar in Rhetoric,** with systematic practice in theme-reading. Open only to advanced students of approved standing. **Two hours, either semester, hours to be arranged.**

Professor Morgan.

B.**Philology.**

1. **Early English Grammar.** Text: Wyatt's Old English Grammar. **Two hours, first semester. 2:00 p. m. Monday, Wednesday.** Professor Dixon.

2. **Early English Poetry.** Texts: Crow's Maldon and Brunanburg; Wyatt's Beowulf. **Two hours, second semester. 2:00 p. m. Monday, Wednesday.** Professor Dixon.

3. **Early English Prose.** Texts: Wyatt's Elementary Old

English Reader. St. John's Gospel in West-Saxon. **Two hours, first semester.** 2:00 p. m. Tuesday, Thursday. Professor Dixon.

4. **Middle English**, including Chaucer. Text: C. W. Emerson's Middle English Reader. **Two hours, second semester.** 2:00 p. m. Tuesday, Thursday. Professor Dixon.

5. **The Origin and Growth of the English Language**, with a comparative treatment of language. Text: O. W. Emerson's History of the English Language. **One hour, both semesters.** 1:05 Friday. Professor Dixon.

6. **Burns, Scott and Northern English Dialect Literature.** **Two hours, first semester.** 11:20 Tuesday, Thursday. Professor Dixon.

C.

English Literature.

1. **General Survey of English Literature.** Texts: Crawshaw's The Making of English Literature; Manly's English Poetry. Prerequisite for elective courses. **Two hours, both semesters.** 1:05 Tuesday, Thursday. Professor Dixon.

2. **General Survey of American Literature.** Wendell and Greenough's History of Literature in America. Assigned readings and reports. **Two hours, first semester.** 2:00 Tuesday, Thursday. Professor Morgan.

3. **English Prose Writers of the Eighteenth Century**, with lectures on the growth of society and the development of movements and institutions. **Two hours, first semester.** 10:25 Tuesday, Thursday. Professor Dixon.

4. **The Short-Story.** Brander Matthews' The Short Story, Cody's World's Greatest Short Stories. Lectures and class discussion. Each member of the class writes one original story. **Two hours, first semester.** 8:00 Tuesday, Thursday. Professor Morgan.

5. **The Technique of the English Novel.** Whitecomb's Study of the Novel, with analysis of one of George Eliot's or Thackeray's works, and comparative study of other novels. Class discussions, with required reports based on critical reading. **Two hours, second semester.** 8:55 Tuesday, Thursday. Professor Morgan.

6. **Milton's Epic and Dramatic Poems.** Text: Cambridge

edition of Milton's Complete Works. **Two hours, first semester.** 2:55 Wednesday, Friday. Professor Dixon.

7. **Nineteenth Century British Poets.** First semester, Wordsworth, Shelley and Keats. Second semester, Browning, Tennyson, Rossetti and Arnold. **Three hours, both semesters.** 10:25 Monday, Wednesday, Friday. Professor Dixon, Miss Foster.

8. **Pre-Shakespearian Drama.** Manly's Specimens of Pre-Shakespearian Drama, Vols. 1 and 2. Lectures on the History of the Drama, with critical reading of plays. **Two hours, second semester.** 2:00 Tuesday, Thursday. Professor Morgan.

9. **Comparative Study of the Drama.** Lectures on dramatic law and technique, with critical study of Greek, Latin, French, and German Drama through English translation. **Two hours, first semester.** 8:55 Tuesday, Thursday. Professor Morgan.

10. **Shakespeare.** Critical study of six plays: As You Like It, The Tempest, Romeo and Juliet, I Henry IV, Macbeth and Hamlet. **Three hours, second semester.** 8:00 Tuesday, Thursday, Friday. Professor Morgan.

11. **Seminar in Versification.** A study of the laws of English Prosody. Professor Dixon is assisted in this course by Professor Pemberton of the College of Music, who presents the Musical Basis of Verse. **Two hours, second semester.** Hours to be arranged.

12. **Seminar. Methods of teaching English in Secondary Schools.** Carpenter, Baker and Scott's Teaching of English, with supplementary reading in Chubb's Teaching of English. Discussion of special methods in English Composition and Rhetoric, and the English classics required for admission to the University. This course is for advanced students who expect to teach English. **Two hours, first semester.** 1:05 Tuesday, Thursday. Professor Morgan.

13. **Browning.** Comparison of Browning's dramatic work with Shakespeare's, followed by a study of Browning's lyrical poems and monologues. **Two hours, both semesters.** 11:20 Monday, Wednesday. Miss Foster.

14. **English Prose Writers of the Nineteenth Century.** With lectures on modern thought and brotherhoods. **Two hours, second semester.** 10:25 Tuesday, Thursday. Professor Dixon.

15. **The Schools and Vocabulary of Literary Criticism.** Text:

Gayley and Scott's Methods and Materials of Literary Criticism. Two hours, second semester. 11:20 Tuesday, Thursday. Professor Dixon.

16. English Prose from Bacon to Bunyan. Two hours, first semester. 10:25 Tuesday, Thursday. Dr. Healy.

17. English Poetry from Dryden to Cowper. Manly's English Poetry. Two hours, second semester. 10:25 Tuesday, Thursday. Dr. Healy.

Major Work: Thirty semester hours, including Rhetoric 1.

ENGLISH BIBLE.

Professor John G. Hill.

1. The Pentateuch and Historical Books of the Old Testament. Hebrew origin, history, tradition, cosmogony, morals, laws, government, and religious philosophy from Abraham to Solomon will be mastered. The questions of date, author, purpose, plan, style of literary composition and ruling ideas of each book will be studied. **Two hours, first semester. 1:05 Tuesday, Thursday.**

2. The Prophetic and Wisdom Books of the Old Testament. This course will survey the varied and swiftly changing periods of Hebrew and Jewish history from the close of the United Kingdom to the close of Old Testament times. The greatest stress, however, will be laid upon the study of the prophets; their unique place and power, their relation to state and Church, their distinctive messages and permanent contribution to the history of religion. **Two hours, second semester. 1:05 Tuesday, Thursday.**

3. The Apostolic Age of the New Testament. This course is a careful survey of the Apostolic Church of the first century, its origin, strange success, painful conflicts with Judaism, brutal persecutions by Paganism, its new life in the dying Empire; also a comparison of the religious ideas of Paul, Peter, James and John and their mode of inspiration. **Two hours, first semester. 2:30 Tuesday, Thursday.**

4. The Gospel History and Literature of the New Testament. A study of the life, teachings, work and significance of Jesus Christ as portrayed in the Four Gospels and as seen against the historic background of modern scholarship. Special emphasis

is laid upon the living authority of Jesus and the ruling ideas of the Sermon on the Mount in sharp contrast to Jewish and Pagan religious ideas. **Two hours, second semester. 2:00 Tuesday, Thursday.**

FRENCH.

Professor Edgar M. von Fingerlin.

1. **Fraser and Squair's French Grammar.** The essentials of grammar; exercises in pronunciation, reading translation and composition. Dumas' *Histoire de Napoleon* or equivalent will be read in the second semester. **Five hours, both semesters. 8:55 Monday, Tuesday, Wednesday, Thursday and Friday.**

Course 1 is intended for students in the College who wish to begin the study of French.

2. **Modern French Reading.** Chateaubriand, Hugo, Balzac, Dumas, Canfield's Selection. Syntax. Composition. Open to students who have completed Course 1, or its equivalent, or who have credit for entrance requirement 11. **Three hours, both semesters. 2:00, Monday, Wednesday, Friday.**

3. **Classical French.** Selections from Corneille, Descartes, Pascal, La Rochefoucauld, Bossnet and La Bruyere. Advanced French Composition. **Two hours, first semester. 11:20 Tuesday, Thursday.**

4. **Teachers' Course.** Study of sounds, voice, homonyms, synonyms, word-formation, methods of teaching French, and those niceties of the language in which, as long experience has taught, even advanced students are deficient. While primarily intended for teachers the course is open also to those who have finished Course 3. **Two hours, second semester. 10:25 Tuesday, Thursday.**

5. **History of French Literature.** A text book such as Doumic's *Histoire de la Literature Francaise* will be used. Lectures will be given in French. *Choses de France*. **Two hours, second semester. 11:20, Tuesday, Thursday.**

6. **Historical French Grammar.** A survey of the development of French syntax. Throughout the course the French language will be used as much as possible and special attention given to exact pronunciation supported by explanations or

phonetics. **Two hours, both semesters. 1:05 Tuesday, Thursday.**

It is the aim of the department to surround the student with a French atmosphere and to introduce him to the manner of speaking, thinking, and feeling of the people whose language he is studying, hence talks about France and the French as they are at home will be given in all classes.

Major Work: Courses 1-6.

GEOLOGY.

Professor Laird J. Stabler.

1. **General Geology.** Study of a text, with observations on rocks and fossils from museum specimens and field excursions. **Two hours, both semesters.**

2. **Mineralogy.** Laboratory work, with blow-pipe analysis and chemical tests for minerals. Lectures and readings. **Two hours, both semesters.**

GERMAN.

Professor Margaret Graham Borthwick.

Assistant Professor Ruth W. Brown.

1. **Elementary German.** Pronunciation, reading and grammar, with practice in speaking and writing German.

This course includes the essentials of German grammar, with various practical exercises in dictation, composition, translation at hearing, and oral and written reproduction.

During the second semester some interesting short stories and characteristic poems are studied. **Five hours, both semesters. 8:55 Monday, Tuesday, Wednesday, Thursday, Friday.**

Course 1 is intended for students who enter without German. It covers the ground of preparatory subject 10.

...2...**Modern German.** Modern narrative and dramatic prose, selected poems, and one drama of Schiller or Lessing. Grammar continued, with written and oral exercises. Letter writing and original compositions once every two weeks. Collateral reading. **Three hours, both semesters. 8:00 Monday, Wednesday, Friday.**

For students who have had course 1, or two years of High School German.

3. Scientific and Journalistic German. Rapid reading of scientific prose, also leading articles in German newspapers and magazines. Oral exercises. Written exercise once a week. **Two hours, both semesters.** 1:50 Tuesday, Thursday.

For students specializing in science. Open to those who have had course 2, or its equivalent.

4. Classical Writers. Dramas of Lessing, Goethe, and Schiller. Lyrics and Ballads. Lectures and conversation on the life and works of each author studied. One written exercise each week. **Three hours, both semesters.** 2:00 Monday, Wednesday, Friday.

Open to students who have had course 2, or its equivalent.

5. Teacher's Course. Review of grammar, with special emphasis on points necessary for teachers. Introduction to Vietor's system of phonetics, with exercises in reading phonetic texts. Practice in pronunciation and in reading aloud. Recitation of poems, and reading of dramas with assigned parts.

Written exercises in grammar and advanced composition. **Two hours, both semesters.** 2:00 Tuesday, Thursday.

Required of all students majoring in German. Open to those taking any course beyond 3.

6. Schiller. Chronological study of Schiller's life and works. Reading of one complete drama, probably Wallenstein, with selections from other dramas and the principal ballads. Collateral readings and practice in composition. **Two hours, first semester.** 1:05 Monday, Wednesday.

Course 6, alternating with course 8, will not be given in 1909-1910.

7. Goethe. Chronological study of Goethe's life and work'. Readings from "Aus meinem Leben," and Goethe's lyrics and dramas. Collateral readings and practice in composition. **Two hours, second semester.** 1:05 Monday, Wednesday.

Course 7, alternating with course 9, will not be given in 1909-1910.

8. Nineteenth Century Literature. Representative dramas and novels from Grillparzer, Hauptmann, Freytag and Scheffel. Open to students who have had course 4, or its equivalent. **Three hours, first semester.**

9. Goethe's Faust. Interpretation and discussion of both

parts, with short historical introduction and collateral reading of Marlowe's *Faust* and of the *Puppenspiel*. **Three hours, second semester.**

Major Work: Courses 1-9.

GREEK.

Professor Festus E. Owen.

1. **Beginning Greek.** Burgess & Bonner's *Elementary Greek*. Book I of Xenophon's *Anabasis* translated. Practice in sight reading from Book II. Pearson's *Greek Prose Composition* used in connection with the *Anabasis*. **Five hours, both semesters.** 11:20 Monday, Tuesday, Wednesday, Thursday, Friday.

2. **Xenophon's *Anabasis*.** Books II-IV translated. Thorough grammar drill. Daily practice in reading at sight. Pearson's *Greek Prose Composition* used daily in connection with the text. **Five hours, first semester.** 10:25 Monday, Tuesday, Wednesday, Thursday, Friday.

Homer's *Iliad*. Books I-IV read and translated, Books V-VI read at sight. Special attention given to Homeric forms, scansion, and mythology. Prose Composition and Grammar review. **Five hours, second semester.** 10:25 Monday, Tuesday, Wednesday, Thursday, Friday.

(Students planning to major in Greek, but who offer but two years of Greek for entrance, are required to take course 2, second semester, in addition to courses prescribed for major work.)

3. **Herodotus.** Books VII and VIII; Lucian. Selections for rapid reading. **Three hours, first semester.** 2:55 Tuesday, Wednesday, Thursday.

4. **Plato.** *Apology* and *Crito* with selections from the *Phaedo*.

Lectures on Greek Philosophy and Plato's ethics in relation to modern thought. **Three hours, second semester.** 2:55 Tuesday, Wednesday, Thursday.

5. **Xenophon's *Memorabilia*, Selections.** Plato's *Gorgias* and *Protagoras*.

A careful study is made through lectures and assigned readings of the history of Greek Philosophy up to Aristotle.

The aim of this course is to introduce the student to the

study of Philosophy with reference to its history, its problems and its effect upon human life. **Three hours, both semesters.** 1:10 Monday, Wednesday, Friday.

6. Greek Tragedy.

(a) Aeschylus—Prometheus.

(b) Sophocles—Antigone.

A careful study of the development of the Greek Drama will be made through lectures and assigned readings. Special attention given to the evolution of religious ideas and to the ethical tendencies in the Dramatists. **Three hours, first semester.** 1:10 Monday, Wednesday, Friday. Omitted 1909-1910.

7. Homer. Odyssey, four to eight books. Study of the whole period of epic poetry. Collateral reading from standard histories of Greek literature—Jebb's "Introduction to Homer" and Arnold "On the Translation of Homer. Lectures on Homeric religious, social and political customs. **Three hours, second semester.** 1:10 Monday, Wednesday, Friday.

8. Herodotus and Thucydides. Selections. **Three hours, both semesters.**

(Omitted 1908-1909.)

9. History of Greek Literature from Homer to Theocritus. This course consists of lectures and recitations based on translations together with papers on assigned topics. Jebb's "Primer of Greek Literature," and "Murray's Ancient Greek Literature," will be used as general guides. The aim is to secure familiarity with the great masterpieces of Greek Literature as well as to gain a comprehensive grasp of the important facts of its history. This course is of special value to those who expect to specialize in, or to teach English Literature. Open to all students. **Two hours, both semesters.** 8:55 Tuesday, Thursday.

Six hours credit will be given in Course 8 to those students not majoring in this Department. To those majoring in Greek, but four hours credit will be granted.

10. New Testament Greek. Reading of Luke's Gospel and selections from The Acts. **Two hours, both semesters.** Hours to be arranged.

Major Work: Courses 3 to 9.

HISTORY.

Professor Tully C. Knoles.

Professor James H. Hoose.

Professor Rockwell D. Hunt.

Professor James M. Dixon.

1. English History. With special reference to social and literary development. Lectures, reports, collateral reading. **Both semesters.** 11:20 Tuesday, Thursday.

2. Mediaeval Europe. (a) A general survey of ancient civilization; a discussion of the transition period. (b) From Charlemagne to the Renaissance. Text book, Emerton's "Mediaeval Europe." Lectures, bibliography making, reports. **Both semesters.** 8:55 Monday, Wednesday, Friday.

2. Modern Continental Europe. Selected periods, including the French Revolution, and the organization of the German Empire. Text books: Lowell's "Eve of the French Revolution"; Andrew's "Historical Development of Modern Europe." **Both semesters.** 11:20 Monday, Wednesday, Friday.

4. Constitutional and Institutional History of the United States. Lectures, reports, investigations, comparisons. **Both semesters.** 1:05 Monday, Wednesday, Friday.

5. Problems of the New Orient. (a) The history of Japan from legendary times. Japanese ideals and social conditions. The aborigines of Japan in Yezo and Sakhalin. The new industrialism and imperialism. Text book: Chamberlain's "Things Japanese." b) The Chinese race, its origins, history and ideals. Manchu influences. The meeting of the Orient and Occident. Possibilities latent in the Chinese people. Text book: Arthur Smith's "Chinese Characteristics." (c) Corea as influencing and influenced by China and Japan. **Two hours, both semesters.** Hours to be arranged. Dr. Dixon.

5. English History from a Literary standpoint with special reference to historical plays of Shakespeare. **One hour, to be arranged, both semesters.** Dr. Dixon.

7. International Law. The nature, sources and principles of international law, the influence of Christian civilization upon rules and the contribution of the United States to its

development. **Three hours, second semester. 11:20 Monday, Wednesday, Friday. Dr. Hoose.**

8. History of Ancient Law. Considers the field of the conditions of civilization out of which emerged the ideas, principles and forms which have formulated the systems of civil and criminal laws. **Two hours, second semester. 11:20 Tuesday, Thursday. Dr. Hoose.**

9. Pacific Slope History. Special lecture course, with special reference to California. Primarily for advanced college students and teachers. **One hour throughout the year. Hour to be arranged. Dr. Hunt.**

Major Work: Thirty semester hours.

ITALIAN.

Prof. Edgar M. von Fingerlin.

1. Grandgent's Italian Grammar. La Parola Italiana by Comba. Bowen's First Italian Readings, Goldoni's *Il Vero Amico*, Grandgent's Italian Composition. **Three hours, both semesters. 11:20 Monday, Wednesday, Friday.**

2. Manzoni's I Promessi Sposi. Silvio Pellico's *Le Mie Prigioni* and other classics. Composition. **Two hours, both semesters. 1:05 Monday, Wednesday.**

Lectures on Italian Literature. **Two hours, both semesters. Hours to be arranged.**

3. Dante, Tasso, Petrarca. Advanced Composition. Lec-

LATIN.

Professor Roy Edwin Schulz.

Assistant Professor Ruth W. Brown.

Assistant Professor Hugh C. Willett.

1. Cicero. De Senectute, Tusculan Disputations, Book I. Careful interpretation of the text with practice in reading aloud with proper phrasing and emphasis without translation and in translation at hearing. **Three hours, first semester. 10:25 Monday, Wednesday, Friday.**

2. Horace. The Odes and Epodes. Lectures on the Augustan Age and Horace's contemporaries. Metrical reading, style and subject matter are given special attention. **Three hours, second semester. 10:25 Monday, Wednesday, Friday.**

3. Latin Syntax. A complete review in lectures and exer-

cises of Latin syntax. The exercises are based on Cicero's *De Senectute*. The course is required of all registered for Course 1. **Two hours, either semester.** 10:25 Tuesday, Thursday.

4. **Latin Prose Composition.** Special attention is given to sentence structure, word-formation, and synonyms. The exercises are based on Cicero's *De Amicitia* which is read at sight. Open only to students who have received a high grade in Course 3. **Two hours, second semester.** 10:25 Tuesday, Thursday.

5. **Latin Comedy.** During the semester at least one play of Terence and two of Plautus will be read. Special attention is given to early forms, meter, etc. Lectures on the development of Roman Comedy, on the Roman theater, on the presentation of plays and on Roman Life. **Three hours, first semester.** 8:55 Monday, Wednesday, Friday.

6. **Livy.** Selection from the extant books. Lectures on the history and literature of the period of foreign conquest. Reference reading in Mommsen, Niebuhr, etc. **Three hours, second semester.** 8:55 Monday, Wednesday, Friday.

7. **Cicero.** Letters. Lectures on the history of the Republic from B. C. 133 with special reference to contemporary events. **Two hours, first semester.** 8:00 Tuesday, Thursday.

8. **Tacitus.** *Agricola* and *Germania*, or selections from the *Annals*. Lectures on the history and literature of the early empire. **Two hours, second semester.** 8:00 Tuesday, Thursday.

9. **Advanced Latin Prose Composition.** Writing of essays and letters in Latin. Translation of passages from English writers. The style of Cicero, Livy and Tacitus studied and compared. Open only to students who have received a high grade in Course 4. **One hour, both semesters.** 2:00 Monday.

10. **History of Latin Literature.** Lectures on Latin Literature from Livius Andronicus to Boethius, with the interpretation of selections from all prominent authors. The course does not require a knowledge of Latin, and is open to students of all departments. Major students in the department will be required to do outside reading from text. **Two hours, both semesters.** 8:55 Tuesday, Thursday. (Not given in 1909-1910.)

11. **Latin Poetry of the Republic.** Selections from Lucretius, Catullus, Ovid, Propertius and Tibullus studied largely

with reference to thought and artistic form. **Two hours, first semester.** 2:00 Wednesday, Friday.

12. **Latin Poetry of the Empire.** Selections from Seneca, Martial and Juvenal. **Two hours, second semester.** 2:00 Wednesday, Friday.

13. **Teachers' Course.** The first semester will be occupied with a critical review of Latin forms and syntax, using Bennett's Appendix as a text. The second semester will be occupied with lectures on the Pedagogical Value of Latin, the work of the four years in the secondary school, the place of Composition, Prosody, History, etc., in the study of Latin; visiting and reports from secondary school in the vicinity of Los Angeles; practice in teaching in the preparatory school of the University. Prerequisite, Philosophy 1.

Open to Juniors and Seniors. **Two hours, both semesters.** 2:00 Tuesday, Thursday.

Major Work: Thirty semester hours, including Courses 3, 4, 9 and 10.

MATHEMATICS.

Professor Paul Arnold.

Assistant Professor Hugh C. Willett.

1. **Elements of Analysis.** This course is intended primarily for those who wish to get a view of some of the principal fields of mathematics without doing to any great extent detailed work in these fields. It includes the fundamental laws of algebra with applications, an elementary course in plane trigonometry, the study of the fundamental ideas of analytic geometry and calculus, with applications of these ideas to problems in geometry; also a brief history of mathematics. **Three hours, both semesters.** 11:20 Monday, Wednesday, Friday.

2. **Theory of Algebra.** A lecture and text book course in which emphasis is placed principally upon the theory and the development of algebra. This course includes a review of elementary algebra, special attention being given to proofs of fundamental laws and principles. **Three hours, both semesters.** 8:00 Monday, Wednesday, Friday.

3. **Algebra.** Mathematical induction, equivalent equations, surds and complex numbers, theory of quadratic equations,

simultaneous quadratic and higher equations, ratio, proportion, variation, the progressions and other simple series, inequalities, permutations and combinations, the binomial theorem for any exponent, limits and infinite series, determinants, theory of equations. **Two hours, both semesters.** 8:55 Tuesday, Thursday (first semester). 8:00 Tuesday, Thursday (second semester).

4. **Solid and Spherical Geometry.** The fundamental propositions of the Euclidean geometry of space. **Three hours, first semester.** 8:00 Tuesday, Wednesday, Thursday.

5. **Trigonometry.** Plane trigonometry and its applications, the trigonometry of the right spherical triangle, and logarithms. **Three hours, second semester.** 8:00 Tuesday, Wednesday, Thursday.

6. **Advanced Trigonometry.** This course is designed particularly for engineering students, and includes a review of plane trigonometry, as well as a thorough study of the fundamental principles of spherical trigonometry and the application of its formulas to the solution of spherical figures. Pre-requisite, Course 5 or entrance trigonometry. **Two hours, first semester.** 8:55 Wednesday, Friday.

7. **Plane Analytic Geometry.** The analytic geometry of the straight line, the circle, and the conic sections, including a discussion of the general equation of the second degree, and some special examples in higher loci. **Five hours, second semester.** 8:55 Monday, Tuesday, Wednesday, Thursday, Friday.

8. **Differential Calculus.** Development of the fundamental principles and formulas, applications to various problems in geometry and analysis. **Three hours, first semester.** 10:25 Monday, Wednesday, Friday.

9. **Integral Calculus.** The general principles of the integral calculus are developed, and the usual applications made to centers of gravity, moments of inertia, and especially to geometry. **Three hours, second semester.** 10:25 Monday, Wednesday, Friday.

10. **Differential Equations.** **Three hours, both semesters.** Hours to be arranged.

11. **Descriptive Astronomy.** A general course, requiring only the mathematics of Courses 3-5. Open to students in the last

two years of the college course. **Two hours, both semesters.**
Hours to be arranged.

Major Work: Twenty-six semester hours.

MUSIC.

Professor Walter Fisher Skeele.

Students who take harmony and theory, or advanced instrumental or vocal work in the College of Music may be allowed college credit for the same, but the credit shall in no case exceed fifteen semester hours, and will be given only upon the recommendations of the Dean of the College of Music.

ORATORY.

Professor Beulah Wright.

Associate Professor Gertrude Comstock.

Associate Professor Elizabeth Yoder.

Students taking work in the College of Oratory may be allowed credit in the College of Liberal Arts, not to exceed fifteen semester hours, credits to be given only upon the recommendation of the Dean of the College of Oratory.

1. Vocal Expression.

(a) Principles of expression, voice building and tone placing. Expression of the body. Interpretation of literature from the text. **Two hours, either semester.**

(b) Advanced vocal training and bodily expression. Interpretation from modern authors. Kipling, Van Dyke, Stevenson, Maclaren, and others. **Two hours, either semester.**

2. Public Speaking.

(a) Extemporaneous work. Preparation and delivery of short speeches such as talks on current public questions, toasts, discussions. **Two hours, first semester.**

(b) Extemporaneous Work. Preparation of briefs for debate, forensics, argumentations, lectures. **Two hours, second semester.**

3. Oratory. A study of masterpieces of oratory. Text, Sears' History of Oratory. The preparation and delivery of one original oration. **Two hours, either semester.**

4. Bible and Hymn Reading. Vocal Expression of the Bible

and Hymns, Voice Building. Text, Curry's Vocal and Literary Interpretation of the Bible. **Two hours, either semester.**

5. Vocal Interpretation:

(a) Lyric Poems. Training of the Imagination. Studies in Tennyson, Burns, Browning, Wordsworth and others. **Two hours, first semester.**

6. Shakespeare. King Lear or Julius Caesar, Midsummer's Night Dream or Twelfth Night. **Two hours, second semester.**

(Tuition for the above courses is payable at the Office of the College of Oratory.) (See Tuition College of Oratory.)

Provision is made for a special class in the principles of Expression, for those students who enter the college without the required Preparatory School work. This is an elementary course of two hours for one semester; no college credit will be allowed for it.

PHILOSOPHY AND EDUCATION.

Professor James Harmon Hoose.

Philosophy.

1. Psychology. The aim in this subject is to acquaint the student with what is valuable in the investigations in Mental Science. Text-books, lectures and original investigations. Prerequisite to Courses 3, 4, and 5. This course is the required work in Philosophy. **Three hours, both semesters.** 8:55 Monday, Wednesday, Friday.

2. Logic. The elements in this subject as given in Jevons' Logic, with practical exercises. **Three hours, first semester.** 11:20 Monday, Wednesday, Friday.

3. History of Philosophy. Weber's History of Philosophy, the text covering the ancient Greek Philosophy, supplemented by additional reading and investigation. Prerequisite for Course 5. **Three hours, first semester.** 8:00 Monday, Wednesday, Friday.

4. History of Philosophy. Modern Philosophy, with readings from the more important philosophers. **Three hours, second semester.** 8:00 Monday, Wednesday, Friday.

5. Metaphysics. Lectures, readings and dissertations. For Seniors. **Two hours, second semester.** 11:20 Tuesday, Thursday.

6. Ethics. Borden P. Bowne's Principles of Ethics, accom-

panied by lectures, discussions, library references and special inductive and constructive studies in the ethical teachings of Jesus, the great poets and philosophers and autobiographers, ancient, and modern; current ethical problems of the day are treated in the light of recent psychology and mental science. The last part of the semester is given to a detailed study of human duties, individual and social, civic and divine in accord with the rapid moral advance in applied ethics. Prerequisite, Psychology. **Two hours, first semester.** 10:25 Tuesday and Thursday. Professor John G. Hill.

7. **Theism and the Philosophy of Religion.** The aim in this Course is to carefully examine the leading ultimate grounds offered as explanations of reality, and to set forth the theistic ground of a supreme, self-existent, personal Being as the only satisfactory explanation. A clear philosophy of Religion is sought by a sympathetic study of the light which recent science sheds upon the problems of nature, man and mind. Modern Naturalism in its suicidal metaphysical implications and its inferiority to explanation by Personal Idealism is treated. The texts used are Iverach and Bowne. Prerequisite, Psychology. **Two hours, second semester.** 10:25 Tuesday and Thursday. Professor John G. Hill.

8. **The Evidences and Philosophy of Christianity.** The various evidences for the truth of Christianity are canvassed. It is shown how the completion of the moral and religious process in man demands Jesus Christ; and how Christianity is the key to life's philosophy, answering the question: "How can we best explain the mysteries of life?" The many apologetic questions troubling the probing student touching ancient and modern difficulties concerning Christianity are vigorously considered. The text book work is supplemented by frequent lectures and library work. **Two hours, throughout the year.** Tuesday and Thursday. Professor John G. Hill.

Education.

1. **Psychology**, (Philosophy 1) is prerequisite to all courses in education.

Lectures, Texts, Readings, Original Investigations.

1. **The Form and Content of Education.** (1) Critical study

of the Psychological Form and Content of Education as it exists in Civilization. This study includes an inquiry into the psychology of progress in Civilization. (2) An examination of Ancient Civilization in order to discover the efficient educating agencies that wrought the practice and theory of living current in those civilizations. Civilization is conceived to be the form of human living existing in any social group,—tribe, community, state, nation—at any given time and in any given place. **Two hours, first semester. 8:55 Tuesday, Thursday.**

2. The Theory and Practice of Education. This course investigates primarily the psychology of the Acts of Learning. It investigates secondarily the form of the subject matter that is to be learned. It inquires thirdly into the psychology of the mind that teaches, and how this mind builds up the Science and Art of Teaching. **Two hours, second semester. 8:55 Tuesday, Thursday.**

3. The History of the Mediaeval Period. An historical and philosophical investigation of the forms of civilization and education which prevailed during the Mediaeval Period, devoting special attention to the forms in which education developed into systems and institutions. **Two hours, first semester. 8:00 Tuesday, Thursday.**

4. Educational Reformers. A review of the work of the so-called Educational Reformers who appeared upon the educational field from Luther down to modern times. This course will be historical and philosophical, touching systems and institutions, and educating agencies. **Two hours, second semester. 8:00 Tuesday, Thursday.**

5. A special course for teachers may be formed, if there should be a demand for it. The course contemplates the discussion of school management, school discipline, and class instruction.

The following Special Education Courses are offered in other departments:

Teachers' Course in English (see English C. 12).

Teachers' Course in French (see French 4).

Teachers' Course in German (see German 5).

Teachers' Course in Latin (see Latin 13).

PHYSICAL EDUCATION.

Professor Dean Cromwell.

Elsie Vanderpool, Director of Women's Gymnasium.

Oliver J. Schieber, Assistant in the Men's Gymnasium.

1. Systematic class work in gymnastics for men. The work consists of vigorous drill with dumb-bells, Indian clubs and wands, besides progressive graded work on the various pieces of gymnastic apparatus. Required of all first-year students. **Four hours, both semesters. Professor Cromwell.**

2. An advanced course for men combining light and heavy gymnastics. Open to those who have completed Course 1. **Four hours, both semesters. Professor Cromwell.**

3. Outdoor sports and light gymnastics for women; tennis, basket ball volley ball, light work on the ladies' athletic field; recreative games and simple use of apparatus. **Four hours, both semesters. Miss Vanderpool.**

4. An advanced course for women. Advanced exercises with chest weights, dumb-bells, Indian-clubs, ladders and rings. Difficult free work with rhythmical drills for grace and harmony of movement. Open to those who have completed Course 3. **Four hours, both semesters. Miss Vanderpool.**

Men's classes meet Monday, Tuesday, Wednesday, Thursday, at 2:00, 2:55, and 3:50. Women's classes meet Monday, Tuesday, Wednesday, Thursday, at 10:25, 11:00, and 1:00.

Note.—Four semester hours in Physical Education is the required and also the maximum number for an A.B. degree.

POLITICAL SCIENCE.

Professor Rochwell D. Hunt.

1. **Elements of Political Science.** Historic origin of political institutions; theories of the state; nature of sovereignty; the structure and province of government. With lectures, readings, and student reports. **Three hours, first semester. 8:55 Tuesday, Thursday.**

PHYSICS.

Professor William R. Bowker.

Associate Professor Arthur W. Nye.

Laboratory Assistant Fred R. Brown.

1. General Physics. Electricity and Heat. Lectures 1:05, Monday, Tuesday, Wednesday. Laboratory arranged P.M. **Four hours, first semester.**

2. General Physics. Mechanics and Light. Lecture 1:05 Monday, Tuesday, Wednesday. Laboratory arranged P.M. **Four hours, second semester.**

These courses are open to all who have completed preparatory physics and trigonometry. They are intended to give the student a thorough grounding in the important laws and principles, together with their proofs and applications. The work is also of such a character as to form a basis for further work in special branches for students of engineering. Instruction is given by three periods of lecture and class-room work and three periods of laboratory work per week.

3. Mechanics. An advanced laboratory course continuing course 1, may be taken concurrently with it. Experiments are made along such lines as moment of inertia, uniformly accelerated motion, modulus of rigidity, force of gravity, etc. Four periods of laboratory work per week, with occasional lectures. **Two hours, either semester. Hours to be arranged.**

4. Shop Work. Instruction in the use of wood and metal working tools and machinery, including cutting, filing, drilling, tapping, polishing, screw cutting, and elementary lathe work. **Two or four periods in laboratory, one or two hours, either semester. Hours to be arranged.**

5. Applied Electricity. A course in the principles and applications of electricity. Prerequisite, Physics 1. **Two hours, second semester. 8:55 Thursday, Friday.**

6. Electrical Measurements. A laboratory course in which the theory and methods of exact electrical determinations are taken up, including the determination of resistance by various methods, galvanometer constants, measurement of current and electromotive force, insulation tests, hysteresis and permability tests, calibration of instruments, use of condensers, measure-

ment of induction, etc. Six periods per week. **Two hours, first semester.** 1:05-3:50 Monday, Tuesday.

7. **Advanced Heat.** A laboratory course consisting of work of the nature set forth in Millikan's "Mechanics, Molecular Physics, and Heat." Four periods in the laboratory with occasional lectures. Hours to be arranged. **Two hours, either semester.**

8. **Advanced Light.** A laboratory course involving considerable work with the spectroscope and photometer. Hours and credits to be arranged.

SPANISH.

Professor Katherine T. Forrester.

1. **Elementary Spanish.** Monsanto's Grammar with Worman's and Bransby's Readers. Thorough drill in pronunciation and grammatical forms. Exercises in reading and writing. Umphrey's Spanish prose composition with conversation on the text. Doce Cuentos Escogidos, Fortuna and El Capitan Veneno, are read. **Five hours, both semesters.** 8:55 Monday, Tuesday, Wednesday, Thursday, Friday.

2. **Advanced Spanish.** Umphrey's Prose Composition is finished. Matzke's Reader, Alarcon's Novelas Cortas and El Si de las Ninas are read. **Three hours, first semester.** 11:20 Monday, Wednesday, Friday.

3. **Conversation.** Ibarra's Practical Conversation Method and items taken from Spanish newspapers. **Two hours, first semester.** 11:20 Tuesday, Thursday.

4. **Advanced Reading and Composition.** A. Ramsey's Progressive Exercises. Taboada's Cuentos Alegres, Marianela and Gil Blas are read. **Three hours, second semester.** 11:20 Monday, Wednesday, Friday.

5. **Advanced Conversation.** Ibaarra's Practical Conversation Method. **Two hours, second semester.** 11:20 Tuesday, Thursday.

6. **Advanced Grammar and Contemporary Novels.** Ramsey's Spanish Grammar, novels by Alarcon, Palacio Valdes, Pardo Bazan, Niniez de Acre, Valera, Galdos and others are read. Written work on novels and conversation in Spanish. **Three hours, first semester.** 11:20 Monday, Wednesday, Friday.

7. **Modern Novels.** Fernan Caballero, Tomayo y Baus, Becquer Esproneda, etc. Written work and conversation on text. **Three hours, second semester.** 11:20 Monday, Wednesday, Friday.

8. **Classical Spanish.** Readings from Don Quixote, and others of Cervante's works, Lope de Vega, Calderon, etc. Discussions of same in Spanish. **Two hours, first semester.**

9. **History of Spanish Literature.** Reference reading in Gil y Zarate, Zitz-Maurice Kelly and Tichnor. Short lectures in Spanish on prominent authors and important periods. **Two hours, second semester.**

Major Work: Courses 1-9.

ENGINEERING.

The requirements for admission to the Engineering Courses are stated on page 27.

The subjects required for graduation are given under the separate courses.

ENGINEERING DRAWING.

Associate Professor Arthur W. Nye.

1. **Drawing.** Review of projection and developments, lettering, blueprinting, machine drawing and office practice. Lectures and draughting. **Six hours, first semester.** 10:25 and 11:20 Tuesday, Thursday.

2. **Drawing.** Conventional signs and symbols, topographical maps, tinting and shading. **Six hours, second semester.** 10:25 and 11:20 Tuesday, Thursday.

3. **Descriptive Geometry.** Lectures and drawing, including representations of lines, surface and solids, with their intersections, tangencies and developments; shades and shadows, linear perspective and stereotomy. **Five periods, both semesters.** 8:00-8:55 Tuesday, Thursday. Lecture 11:20 Thursday.

4. **Machine Design.** Advanced course in mechanical and electrical design; detailing, working drawings of complicated machine details, study of standard commercial machine parts, shop practice, strength of parts, use of tables, formulae and slide rule, gearing, estimating, specifications, structural iron and steel, lectures and practice. **Two hours class. Three hours drafting,**

first semester. Class 8:55 Tuesday, Thursday. Drafting, 1:05-4:30 Thursday.

CIVIL ENGINEERING.

Professor John B. Johnson.

Field-Work Assistant Walter E. Jessup.

Field-Work Assistant Oliver J. Schieber.

Field-Work Assistant Arsen H. Avakian.

The great industrial development of recent year in every part of the United States has created a large demand for trained Civil Engineers. The course in Civil Engineering has been made quite broad in order to meet this demand, by providing a sufficient foundation for the wide range of practice now included under Civil Engineering.

Very few college students know in what part of this wide field their life work will lie. Because of this, and the great difficulty of mastering fundamentals during the stress of professional work, it has seemed best to provide a broad university preparation and to defer specialization to the period of active employment.

The course is designed to give a practical as well as theoretical training. Nearly as much time is spent in the drawing room, laboratory, and field, as in the lecture room.

By consulting the schedule following it will be seen that considerable time is devoted to Mathematics, English, Modern languages, and Sciences. Of the more technical work, the Field Engineering is given very full treatment in lecture room, office and field.

In the third year Theoretical Mechanics is thoroughly developed and forms the basis for the designing and construction which occupies the remainder of the course. The importance of correct methods of thought and practice is constantly inculcated.

A very large amount of important Engineering work, which is greatly diversified by the proximity of harbors, mines, irrigation and water supply projects, several trans-continental railway terminals, and a very extensive electric power, and interurban railway system, is continually going on in the vicinity

of Los Angeles. Students in this Department, accompanied by Instructors, are required to inspect much of this work, and to present written reports on what they have seen.

REQUIRED COURSE IN CIVIL ENGINEERING.

FIRST YEAR.

First Semester.		Lab.	Class
		Hours.	Hours.
Math., 3, 6—Alg. and Trig.....	..		4
Chemistry, 1—General .....	..		3
Chemistry, 3	6	..	
Civil Engr., 1—Surveying theory.....	..		2
Civil Engr., 2—Field work.....	3	..	
Engr. Drawing, 1.....	6	..	
Eng. A., 1.....			3

Second Semester.

Math., 7—Analytical Geom.....	..		5
Chemistry, 2 .....	..		3
Chemistry, 4	6	..	
Civil Engr., 1 .....	..		2
Civil Engr., 2	3	..	
Engr. Drawing, 2	6	..	
English, A 1			3

SECOND YEAR.

First Semester.

Math., 8—Calculus .....	..		3
Geology, 2—Mineralogy .....	..		2
Engr. Drawing, 3—Descrip. Geom.....	5	..	
Civil Engr., 13—Materials .....	..		3
Physics, 1—Elec. and Heat.....	3		3
French or Spanish			5

Second Semester.

Math., 9—Int. Calculus .....	..		3
Physics, 4—Shop	2	..	
Geology, 2 .....	..		2
Civil Engr., 3—Higher Surv.....	3		1
Engr. Drawing, 3	4		1
Physics, 2—Mech. and Light.....	3		3
French or Spanish			5

THIRD YEAR.**First Semester.**

	Lab. Hours.	Class Hours.
Civil Engr., 8—Anal. Mech. ....	..	3
Civil Engr., 9—Mech. of Materials.....	..	2
Civil Engr., 15—Graph. Statics	2	1
Civil Engr., 5—R. R. Engr. Theory.....	..	2
Civil Engr., 6—R. R. Engineering Practice.....	6	..
Elect. Engr., 1—General .....	..	5
Thermodynamics .....	..	2

Second Semester.

Civil Engr., 8 .....	..	2
Civil Engr., 9 .....	..	3
Civil Engr., 16—Stresses .....	..	2
Elect. Engr., 5—Steam Engr.....	..	3
Civil Engr., 10—Hydraul.....	..	3
Civil Engr., 7—R. R. Economics.....	..	2
Engr. Drawing, 4—Mach. Design.....	3	2

FOURTH YEAR.**First Semester.**

Civil Engr., 18—Struct. Design	4	1
Civil Engr., 15—Foundations .....	..	2
Geology, 1 .....	..	2
Math., 10—Astronomy .....	..	2
Civil Engr., 17—Engr. Lab.	3	..
Civil Engr., 11—Water Supply .....	..	2
Civil Engr., 12—Sanitary Engr. ....	..	2
Civil Engr., 21—Canals, rivers, harbors.....	..	1
Civil Engr., 23—Thesis .....	..	1

Second Semester.

Civil Engr., 18	4	1
Civil Engr., 20—Tunneling, mining .....	..	1
Geology, 1 .....	..	2
Math., 10 .....	..	2
Civil Engr., 4—Geodetic Surveying .....	..	2
Civil Engr., 22—Contracts and Specifications.....	..	2
Civil Engr., 19—Highway Engr. ....	..	2

COURSES IN CIVIL ENGINEERING.**Surveying and Geodesy.**

1. **Surveying.** An elementary course including use and care of surveying instruments and the methods of making land surveys; measuring angles with the transit; leveling for profiles; establishing a meridian with solar compass or solar attachment. **Two hours, throughout the year.** 1:05 Monday, Tuesday

2. **Surveying Field Work.** The practical adjustment of surveying instruments; the proper method of keeping clear field notes, and the working of field problems with chain, tape, level, plane table, transit, compass, etc. The work in the drawing room consists of platting the field notes and making profiles and maps. **Three periods, throughout the year.** Course 1 to be taken concurrently. 2:00-4:30 Thursday, Friday.

3. **Higher Surveying.** Topographical surveys with plane table and stadia; city surveys; use of sextant and barometer. Lectures, recitations and field work. **Four periods, second semester.** 2:00 Wednesday; 1:05-4:30 Tuesday. Prerequisites, Courses 1 and 2.

4. **Geodetic Surveying.** A course treating of methods of conducting geodetic surveys including determination of the form of the earth, base line measurements, triangulation, precise leveling, least squares and astronomical problems. **Two hours, second semester.**

Railroad Engineering.

5. **Railroad Engineering.** A course including the theory of curves, switches and sidings; the making of reconnoissances, and preliminary and location surveys; the computation of earthwork and determination of structures, and making final estimates of cost. **Two hours, lectures and recitations, first semester.** 10:25 Tuesday, Thursday. Prerequisites, Courses 1 and 2.

6. **Railroad Engineering Field and Office Work.** Practice in laying out curves, and making complete surveys for a short line of railway and doing the office work. **Eight periods, first semester.** 1:05-4:30 Monday, Tuesday.

Course 5 must be taken concurrently.

7. **Economics of Railway Location.** The influence of grades,

curves, tunnels, rise and fall, etc., is studied with regard to effect upon cost and operating expenses of steam and street railways. **Two hours, second semester.** 10:25 Tuesday, Thursday.

Prerequisite, Course 5.

Mechanics and Hydraulics.

8. **Analytical Mechanics.** The mathematical treatment of statics, kinematics and dynamics, including determination of center of gravity, moment of inertia, centrifugal force, etc. **Three hours, first semester; two hours, second semester.** Prerequisite, Mathematics 8 and 9. 8:55 Monday, Tuesday, Wednesday, first semester; Monday, Tuesday, second semester.

9. **Mechanics of Materials.** A mathematical course in resistance and elasticity of materials, stresses and strains, shearing, flexure, beams, columns, shafts. **Two hours, first semester; three hours, second semester.** Course 8 must be taken concurrently. 11:20 Thursday, Friday, first semester; Wednesday, Thursday, Friday, second semester.

10. **Hydraulics.** Hydraulic pressure, strength of pipes, flow of liquids through pipes and orifices and over weirs, losses of head, flow of water in open channels, dams of masonry and earth, hydraulic motors and machinery. **Three hours, second semester.** 11:20 Monday, Wednesday, Friday. Prerequisite Course 9.

11. **Water Supply and Irrigation Engineering.** Determination of quantity and quality of supply, water purification, and conservation, design of a system. Diversion, conveyance and application of irrigation water. **Two hours, first semester.** Prerequisite Course 10.

12. **Sanitary Engineering.** Drainage of buildings, treatment and disposal of sewage, sewer systems for cities. **Two hours, first semester.** Prerequisite Course 10.

Engineering Construction.

13. **Materials of Engineering.** A study of the manufacture and properties of stones, cements, concretes, timber, iron, steel, etc., with special attention to determination of safe working stresses. **Three hours, first semester.** 2:00 Monday, Tuesday, Wednesday.

14. **Foundations.** The foundation of bridges and buildings, coffer dams, piers, pile-driving, caissons, masonry and re-enforced concrete arches, retaining wall. **Two hours, first semester.** Prerequisite, Courses 9 and 14.

15. **Graphical Statics.** The graphical determination of the stresses in engineering structures. **Three periods, first semester.** 10:25 Monday, Wednesday, Friday. Course 8 must be taken concurrently.

16. **Stresses in Framed Structures and Arches.** The analytical and graphical methods applied to determining stresses in roof and bridge trusses, and masonry arches. **Three periods, second semester.** 10:25 Monday, Wednesday, Friday. Prerequisite Course 15.

17. **Engineering Laboratory.** Testing of engineering materials. **Three periods, first semester.** Prerequisite Course 14.

18. **Structural Design.** Theory for and practice of making complete designs for steel bridges, roofs, and other structures. Lectures, drawing and computing. **One hour lecture, four hours draughting throughout the year.** Prerequisite, Courses 9, 13 and 16.

19. **Highway Engineering.** Roads and streets of broken stone, paved and oiled roads, location of new roads. **Two hours, second semester.**

20. **Tunneling and Mining.** Excavation, lining, ventilation and drainage of tunnels and mines; sinking shafts, pumping and hoisting. **One hour, second semester.** Prerequisite, Course 11.

21. **Canal Construction and River and Harbor Improvement.** A short course of twenty hours including canals, locks, breakwaters, levees, etc. **First semester.** Prerequisites, Courses 10 and 14.

22. **Contracts and Specifications.** A synopsis of the law of contracts as applied to Engineering construction and a study of typical contracts and specifications. The course includes riparian rights, boundary lines, survey descriptions, etc. **Two hours, second semester.**

23. **Thesis.** A study of some special engineering problem or an independent investigation by the student. The subject must be approved by the professor in charge of the department of Civil Engineering and by the professor who would have imme-

diated direction of the work proposed, not later than November 1st of the Senior year. It must be completed and submitted by June 1st of the same year. **One hour, second semester.**

ELECTRICAL ENGINEERING.

Professor William E. Bowker.

Associate Professor Arthur W. Nye.

The courses offered in this department are designed to fit young men to engage in the operation and production of electrical apparatus, also in the application of electricity to the Arts and Sciences.

During the Freshmen and Sophomore years there is laid a broad foundation, consisting of Physics, Mechanics, Chemistry, Surveying and Language. During the Junior and Senior years special studies in electricity and applied electricity are pursued. These involve the theory of electricity and magnetism, with application to direct current machines and measuring instruments, the theory of alternating currents and alternating machinery and apparatus, comprising alternators, synchronous and induction motors and rotary converters. Courses are also given in Electrical Distribution and Transmission, Lighting and Power plants.

The work of the Engineering Laboratories is co-ordinate with the lecture and class room and aims to give a practical knowledge of electrical measurements and the handling of electrical machinery.

Southern California, in its present state of rapid development, offers exceptional opportunity to the hydraulic and electrical engineer. The work of the University is splendidly supplemented by the large amount of work under construction. The engineers and superintendents in charge of these have been very courteous in aiding the classes on their various trips of inspection. The various power and electric plants in and about Los Angeles afford excellent examples of electric development of high tension and power transmission not surpassed by any other in the United States. Various excursions to these plants and lectures by superintending engineers are some of the features enjoyed by the students of the department.

REQUIRED COURSE IN ELECTRICAL ENGINEERING.**FIRST YEAR.****First Semester.**

	Lab. Hours.	Class Hours.
Math., 3, 6—Algebra, Trig.....	..	5
Engr. Drawing, 1	6	..
Chemistry, 1—General .....	..	3
Chemistry, 3	6	..
English, A 1 .....	..	3
Civil Engr., 1—Surveying, Theory .....	..	2
Civil Engr., 2—Surveying, Field	3	..

Second Semester.

Math., 7—Analytical Geometry .....	..	5
Engr. Drawing, 2	6	..
Chemistry, 2 .....	..	3
Chemistry, 4	6	..
English, A 1 .....	..	3
Civil Engr., 1 .....	..	2
Civil Engr., 2	3	..

SECOND YEAR.**First Semester.**

French or Spanish .....	..	5
Physics, 1—Elec. and heat.....	3	3
Math., 8—Calculus .....	..	3
Engr. Draw., 3—Descrip. Geom.....	4	1
Physics, 4—Shop	4	..
Civil Engr., 13—Materials.....	..	3

Second Semester.

French or Spanish .....	..	5
Physics, 2—Mech. and light.....	3	3
Math., 9—Int. Calculus .....	..	3
Elect. Engr., 11—Shop .....	..	3
Physics, 4—Shop	4	..
Physics, 5—Electricity	2

THIRD YEAR.**First Semester.**

	Lab. Hours.	Class Hours.
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Elect. Engr., 1—General	5
Physics, 6—Elect. Measurements	6	..
Civil Engr., 9—Anal. Mech.	3
Civil Engr., 10—Mechanics .....	..	2
Engr. Drawing, 4—Mach. design.....	3	2
Elect. Engr., 4—Thermodynamics .....	..	2

Second Semester.

Elect. Engr., 1 .....	..	5
Elect. Engr., 2—Dynamo Lab.	6	..
Civil Engr., 9 .....	..	2
Civil Engr., 10 .....	..	3
Elect. Engr., 5—Steam Engr. ....	..	3
Elect Engr., 6—Excursions	3	..

FOURTH YEAR.**First Semester.**

Elect. Engr., 3—Alter. Currents .....	..	5
Elect Engr., 7—Dyn. Lab., A. C. Mach.....	6	..
Elect Engr., 6—Excursions	3	..
Elect. Engr., 8—Elect. Design	3	2
Economics, 1 .....	..	3
Elect. Engr., 9—Engr. Lab.	3	..
Elect. Engr., 12—Thesis	3	..

Second Semester.

Elect. Engr., 3 .....	..	5
Elect. Engr., 7	6	..
Elect. Engr., 6 .....	..	3
Elect. Engr., 10—Commercial Elect. Engr.....	..	4
Economics, 2 .....	..	3
Civil Engr., 11—Hydraulics .....	..	3
Electrical Engr., 12	6	..

COURSES IN ELECTRICAL ENGINEERING.

1. **Dynamo Electric Machinery.** This course comprises a study of the theory and operation of direct current apparatus of all kinds, motors, generators, power plant installations, trans-

mission lines, storage batteries, lamps, controllers, etc., methods of testing and operation, theory of commutation and speed control. Alternating currents are taken up briefly towards the end of the year. Junior Year. **Five hours, both semesters.** 10:25, Monday, Tuesday, Wednesday, Thursday, Friday.

2. **Dynamo Laboratory.** Study is made of the performance of direct current machines by means of their characteristic curves; efficiency, regulation and heat tests are run; and various methods of operating generators and motors and their auxiliary control apparatus are studied. Junior Year. Six periods. **Second semester.** 1:05-3:50 Monday, Tuesday.

3. **Alternating Currents.** A mathematical study of theory and applications to generating, transforming, utilizing machines. Senior Year. **Five hours, both semesters.** 11:20 Monday, Tuesday, Wednesday, Thursday, Friday.

4. **Thermodynamics.** Laws of gases; steam and its uses; heat engines and engine cycles; combustion, etc. Junior Year. **Two hours, first semester.** 8:00, Tuesday, Thursday.

5. **Steam Engineering.** A consideration of the different types of prime movers, especially steam and gas. Study is made of the cost of production of power and general layout of power plants. Junior Year. **Three hours, second semester.** 8:55 Monday, Tuesday, Wednesday.

6. **Excursions.** Trips to various power plants and factories with a view to observing methods and processes. Written reports required of students.

7. **Dynamo Laboratory.** Tests and study of alternating current apparatus. Senior Year. Six periods. **Both semesters.**

8. **Electrical Design.** Study of types of electrical machinery; calculations and detail drawings. Senior Year. Two periods class, three periods drafting. **First semester.**

9. **Engineering Laboratory.** Testing of strength of materials, engine and boiler efficiencies, etc. Senior Year. Three periods.

10. Commercial and economic aspect of the Elect. Eng. industry and details of efficient organization and administration; and, if time permits, street railway engineering will be dealt with. **Four hours, second semester.**

11. **Workshop Mechanics.** A consideration of the materials of machine construction, the methods of working them and

workshop appliances. **Three hours, second semester. 8:00 Monday, Wednesday, Friday.**

12. **Thesis.** Original investigation and study of some special problem.

MINING AND CHEMICAL ENGINEERING.

Professor Laird J. Stabler.

The University is at present offering two years of the course in Mining and Chemical Engineering. The work, as outlined, gives thorough training in the fundamental subjects of mathematics, chemistry, physics, drawing and the elements of engineering. The foundation laid in the two years, prepares the student to enter any of the good mining colleges, and complete the work of the Junior and Senior years, specializing in Mining and Metallurgy.

COURSES IN MINING OR CHEMICAL ENGINEERING.

Freshman Year.

	First Semester.	Second Semester.
Math., 7, 6, 3.....	5	5
Chem., 1, 2, 3, 4.....	5	5
Civil Engineering, I.....	2	2
Civil Engineering, II (Field Work).....	3	3
Engineering Drawing, 1, 2.....	4	4

Sophomore Year.

	First Semester.	Second Semester.
Math., 8, 9 (Calculus).....	4	4
Geology, 2—Mineralogy	2	2
Eng. Drawing, 3—Descriptive Geom.....	1	1
Eng. Drawing, 3	4	4
Physics, 1, 2	4	4
Chemistry, 5, 8	4	4

Summer Session

of the

COLLEGE OF LIBERAL ARTS.

The Summer Session of the University for 1908 was held at the College of Liberal Arts, Monday, June 24th, to Saturday, August 3d.

Courses in the Summer School are designed to meet the needs of the following classes of students:

1. Undergraduates and graduates of a College or University.
2. Teachers, including those in public schools, private schools and other institutions of learning.
3. Auditors, those desiring to hear courses of lectures or occasional lectures (not for credit).
4. Preparatory and Special Students who are deficient in entrance credits or who wish to make a study of some particular subject.

For entrance no formal examinations are required. Students will be admitted to such courses only as their previous training has prepared them to pursue profitably.

Opportunity will be given those who are compelled to enter late to make up their work.

Instruction will be given by the regular members of the University faculty and by special lecturers from other institutions. The University library, and the physical and biological laboratories, with their new equipment, are open to the students in the Summer School.

Los Angeles enjoys, during the summer months, an equable climate of pleasant days and cool nights, affording a rare opportunity of combining recreation and study. Attractive mountain, beach and island resorts are within a few hours of the city by electric car lines.

COURSES OF INSTRUCTION.**SUMMER SESSION 1909.****DEPARTMENT OF BIOLOGY.**

Professor Ulrey.

Assistant Professor Life.

1. General Botany (College).
2. General Zoology (College).
3. Systematic Botany.
4. Systematic Zoology.
5. General Botany (Preparatory).
6. Special Courses (for making up deficiencies in Botany and Zoology).

DEPARTMENT OF CHEMISTRY.

Professor Stabler.

1. Elementary Chemistry.
2. Qualitative Analysis.
3. Quantitative Analysis.

DEPARTMENT OF ENGLISH.

Professor Dixon.

1. The History of the English Language. Text-book, Emerson's History of the English Language.

DEPARTMENT OF FRENCH.

Professor Von Fingerlin.

1. Elementary French.
2. Modern Authors.
3. Classical French.

DEPARTMENT OF ECONOMICS AND SOCIOLOGY.

Professor Hunt.

1. Principles of Economics.
2. Labor Problems.

DEPARTMENT OF GERMAN.

Professor Von Fingerlin.

1. Elementary (Preparatory). Second semester.
2. Modern Stories and Plays (Preparatory). Second semester.
3. Schiller, Drama and Ballads.

DEPARTMENT OF HISTORY.**Professor Knoles.****Professor Dixon.****Professor Hunt.**

1. American History (Professor Knoles).
2. Civics (Professor Knoles).
3. Mediaeval History (College) (Professor Knoles).
4. English History in English Literature, with special attention to Shakespeare's plays (Professor Dixon).
5. Political Development of Modern Europe (Professor Hunt).
6. History of California and the Pacific Slope (Professor Hunt).

DEPARTMENT OF ITALIAN.**Professor Von Fingerlin.**

1. Elementary Italian.
2. Modern Authors.
3. Classical Italian.

DEPARTMENT OF LATIN.**Assistant Professor Willett.**

1. Elementary Latin (2d semester).
2. Caesar (1st semester).
3. Caesar (2d semester).
4. Cicero's de Senectute and Horace's Epodes.
5. Latin Comedy.

DEPARTMENT OF MATHEMATICS.**Professor Arnold.**

1. Elementary Algebra.
2. Advanced Algebra.
3. Geometry.
4. Trigonometry.
5. Analytical Geometry.

DEPARTMENT OF PHYSICS AND ENGINEERING.**Professor Bowker.****Professor Nye.**

1. Elementary Physics (Preparatory) 1st semester.
2. Elementary Physics (Preparatory) 2d semester.

3. General Physics, Electricity and Heat.
4. General Physics, Mechanics and Light.
5. General Physics, Advanced Mechanics.
6. General Physics, Advanced Electricity.
7. General Physics, Teacher's Course.
8. Electrical Engineering.
9. Elementary Mechanical Drawing.
10. Engineering Drawing (1st semester).
11. Engineering Drawing (2d semester).

DEPARTMENT OF PSYCHOLOGY AND EDUCATION.

Professor Hoose.

1. Psychology. The nature and forms of mental activities.
2. Education. Principles of teaching and school management.

The College of Dentistry

THE COLLEGE OF DENTISTRY.

Member National Association of Dental Faculties.

Calendar 1909-1910.

- September 25..Saturday, Examination for removal of conditions.**
**October 5.....Tuesday, Opening exercise in main lecture room,
8 p. m.**
October 6.....Wednesday, Lecture session begins.
**October 16.....Friday, Registration of Students closed for Lec-
ture session of 1909-1910.**
November 24...Wednesday, Thanksgiving recess begins 6 p. m.
November 29...Monday, Thanksgiving recess ends 8 a. m.
December 23...Thursday, Christmas recess begins 6 p. m.
January 3.....Monday, Christmas recess ends 8 a. m.
February 22...Tuesday, Washington's Birthday recess.
May 18.....Freshman and Junior Examinations begin.
JuneCommencement Exercises.

ANNOUNCEMENT, 1909-1910.

The thirteenth annual session of this College will be opened Tuesday evening, October 5, 1909, in the auditorium of the College, corner of Fifth and Wall streets, Los Angeles.

Los Angeles is situated in a country so noted for its beauty and charm of climate that it needs little introduction to the prospective student. Southern California is the garden spot of America, being carpeted with flowers and having many miles of fruit trees possessed of fragrant blossoms which shed their perfume the year around.

Bounding the valley on the north some twenty miles away snow-capped peaks rise and stand like sentinels guarding the valley below. One can climb these titantic peaks in winter and, standing on their summit, view the beautiful orange groves and watch the rolling waves of the Pacific, some forty miles away.

LOS ANGELES.

Los Angeles, the metropolis of Southern California, is situated in the San Gabriel Valley, the fame of which has been spread broadcast throughout the world.

During the past five years the population has increased at the rate of three thousand a month and we now have a city of about 300,000 inhabitants.

It is a city of modern business blocks and beautiful homes, and is conceded to have the finest street railway system of any city in the world.

While the entire country is one grand park, yet the city has set aside sixteen plots of ground, comprising in all 3720 acres, as play grounds. One of these is the largest municipal park in the world.

With the harbor of Los Angeles at San Pedro now practically completed and the Panama Canal assured in the not distant future, the commercial supremacy of this city is secure for the great Southwest. Along with the commercial the educational is keeping pace. As showing the trend in this matter we may note that the growth of the University of Southern California as a whole has been phenomenal. The number of students has increased from 300 to 1400 within five years, and the income and prosperity of the University have been quadrupled.

A postal card addressed to the Information Bureau of the Los Angeles Chamber of Commerce for literature concerning Southern California will bring a handsomely illustrated 84-page booklet, with maps and information that cannot fail to be a revelation to those who have not had the experience of a trip to California.

Eastern students can come here and gain an education at no greater expense than if they remained at home, and at the same time enjoy all of the advantage of the surroundings.

During the winter months from forty to fifty thousand tourists from the East seek the sunshine and pleasure of our climate, and during the summer nearly as many more come to the cool coast from the interior States. We have neither excessive cold nor heat, but every day is a pleasant one. It is not only an ideal country for the enjoyment of health and

recreation, but the conditions which make it favorable for the tourist render it a student's Paradise.

The rapid growth in population of this section opens many opportunities for dental practice—thus enabling our graduates to advantageously locate themselves where their school is best known, and where their acquaintance and following has already been established.

Diplomas from this College are recognized by the Boards of Examiners in all States.

We number among our faculty some of the most eminent teachers in the United States. These men have come to Southern California because of the attractive surroundings, and we have been fortunate in securing their services. The classes at the present time not being large, the student comes into personal relation with these teachers. This is of great advantage over being a member of large classes.

The College is incorporated, not for profit, but as an educational institution strictly. Its board of control has members appointed by the dental societies of Southern California, the alumni of the College and the University. The income of the College, from whatever source, is expended for equipment and instruction, all for the benefit of the students and not for paying dividends to stockholders.

SOCIAL LIFE.

Ample arrangements have been made for the students' recreation and comfort. Strong athletic teams are supported, which give diversion from the routine of study. The students also maintain several societies of social character; also an orchestra and glee club.

THE COLLEGE, BUILDING AND EQUIPMENT.

The progressiveness of this young College is shown in the modern building and equipment which were acquired two years ago. The building is a beautiful light pressed brick structure, erected to suit our special needs. The plans were suggested by two of our professors, who traveled throughout the East for several months gaining new ideas.

The location is directly in the center of the city, being at

the corner of Fifth and Wall streets, and within three blocks of the Pacific Electric Union Depot, where probably more passengers are handled than at any other electric railway depot in America.

Five car lines pass the College door, transferring from all parts of the city.

The Infirmary faces the north (an ideal light), and is a large, beautiful room, with ample light, having broad, high windows. The interior finish is in beautiful Oregon pine, stained golden oak. The walls are wainscoted six feet high with white tile, and are tinted above in colors to harmonize. Polished wooden floors, ample wash basins with hot and cold water, sterilizers, etc.

It is equipped with forty-two new leather-covered Columbia and Morrison chairs, and at every operating chair is a fountain cuspidor with saliva ejector, a glass-top surgical table, glass-top swinging bracket, gas and plugs for electric engines, furnaces, etc.

A complete locker system in connection with the operative clinic furnishes means for the storage of instruments when not in use. In the fitting up of the operating room, the aim has been to make the appointments as nearly as possible like those of a first-class private office, so that from the beginning of his course the student is familiarized with the conditions he will meet in actual practice.

The balance of the laboratories are of the same beautiful and complete arrangement. Under the one roof there are arrangements for teaching every branch of dentistry, even to a dissecting room, so that students are not required to leave the building and thus lose valuable time.

A large library, well equipped with books and over 3000 museum specimens, is a valuable adjunct.

There is no expense spared in equipping the College with appliances which will add to the students' comfort and the ability to better his education. While we now have an equipment of electric lathes, furnaces, microscopes, chemical laboratory appliances, physiological apparatus, projection lantern, etc., etc., which is so complete that the only criticism that has been made upon it is that the student is here afforded luxuries which he cannot own when he leaves our walls.

DEPARTMENTS.**OPERATIVE DENTISTRY.****Professor Ford.****Associate Professor Jordan.****Associate Professor Gray.**

In this department the student is instructed in the latest methods of operative procedure, the fundamental principles being taught in the Freshman and Junior Technic course.

All of the different conditions, materials and methods of manipulation are considered, so that the student when graduated is competent to enter into active practice and give his patients the very best of dental services. In order to develop the judgment and diagnostic ability of the student the Seniors during the second semester are required to study each case presented to them in the Infirmary. When they have decided upon the best method of procedure they then call one of the instructors, who will confirm or correct their opinion.

If qualified at the beginning of the second semester, the Junior students are admitted to the Infirmary for practical operations.

A very thorough course is given in the preparation of cavities and construction of porcelain and gold inlays.

In connection with this department, Professor Jordan will give a course of lectures on The Care and Management of Children's Teeth.

This course will consider pre-natal influences, and the nutrition and development of the child as relating to the teeth; the treating, filling and extraction of children's teeth; the disturbances found in the oral cavity incident to the first dentition, and the management of children in the office.

PORCELAIN.**Professor Eshelman, Dr. Goodman, Dr. Hopkins.**

Porcelain is attracting more and more attention. It is the most artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which cannot be detected.

Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. The

College is equipped with Townsend, Hammond and Custer electric furnaces, a large oil furnace for continuous gum work, fifteen Jenkins gas furnaces and machines for the teaching of the Taggart system of Gold Inlays. Students are taught how to construct inlays by the use of Gold and Platinum matrices, the different blending of colors, and also a complete course of lectures is given covering the entire subject.

By the use of the Townsend Forms we are able to give the students a great deal more technical instructions in Porcelain, Crown and Bridge work, than they ordinarily receive. One is not only taught how to use the facing, in connection with the frame work, but how to carve the entire crown, which is more artistic and stronger, not being divided by metal pins. The Seniors will do practical work in the Infirmary. Our clinic is from the class of people who call for the very best and latest class of operations, and each student is required to construct Gold and Porcelain Inlays and Porcelain Crowns.

Opportunity is afforded the Seniors for making a technic continuous gum case. This is optional with the student.

OPERATIVE TECHNICS.

Professor H. Gale Atwater, Thos. A. Lynch, D. D. S.

This important department is given especial attention in our College, for we realize that the future success of the student, as well as the dentist, lies in first instructions.

It is our aim to make this department one of the strongest in the College. The object of this course is to afford a thorough technical training in operative procedures, preparatory to practical work in the Infirmary; to develop manipulative skill and to give the students an intimate knowledge of the tissues upon which they are to operate, of the physical qualities and adaptation of the materials to be used, and facility in the use of instruments by systematized practice upon teeth out of the mouth.

Special attention will be given to a study of pulp chambers and root canals, their number, size, form, and their relation to the outer surface of the teeth. Sections of the natural teeth will be prepared by each student in such a manner that these features will be clearly shown.

The student will construct models carrying tooth forms of

natural teeth, upon which operations will be performed as in actual practice. This will consist in the preparation of cavities and a study of their classification and forms; the study of enamel and direction of cleavage on different parts of the crowns of the several teeth with special reference to the best form and finish of margins of cavities for filling; the cutting of dentine and the various methods employed in anchoring fillings; the removal of carious tissue; the management of pits and fissures and the general shaping of the cavity. Instruction will also be given in the application of the rubber dam, the methods employed in gaining space, the use of clamps, wedges, separators, etc. In conjunction with practice in cavity preparation, there will be a study of filling materials and their manipulation; the various filling materials in use and their physical properties, indication for their use and the relative value of each.

This course is designed to thoroughly ground the student in the principle of operative dentistry and prepare him to intelligently prosecute the practical work of the Infirmary.

COMPARATIVE DENTAL ANATOMY.

Professor Bebb.

This course covers a comparison of the teeth and surrounding tissues of a man with those of the lower order of animal life. This is made more interesting and instructive to the student by the collection of crania, numbering 1500 specimens (which our museum affords), and a complete series of lantern slides for illustrating the lectures.

SURGERY AND ANESTHESIA.

Professor Lockwood, David D. Thornton, M. D.

The importance of this subject to the dental practitioner cannot be overestimated. A dentist is recognized as an oral specialist. While he may not desire to undertake surgical operations, yet a lack of knowledge upon this subject will reflect upon his ability as a dentist in general.

Particular attention will be devoted to surgical diseases and injuries of the face, mouth, jaws and associate parts.

ORTHODONTIA.**Professor Robinson.**

This subject is taught during the Junior and Senior years.

During the Junior year the course consists of a series of lectures illustrated by numerous lantern slides. Beginning with normal occlusion the lectures take up the different classes of mal-occlusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention followed by a course in model and appliance making.

In the Senior year the instruction is entirely clinical and is given at the individual chair in the Infirmary.

**HISTOLOGY—DENTAL HISTOLOGY—BACTERIOLOGY—
GENERAL PATHOLOGY.****Professor Leonard.**

In our new laboratory, equipped with thirty-five new microscopes and every appliance and convenience, these departments are conducted in such a manner as to be of great benefit to a dental student. Histology and Dental Histology are given in the Freshmen year, Pathology in the Junior, and Bacteriology in the Senior year.

DENTAL PATHOLOGY, MATERIA MEDICA AND THERAPEUTICS.**Professor W. C. Smith.**

The instruction in this branch will consist of two lectures each week to the Junior and Senior students, embracing a study of all pathological conditions of interest to the dental practitioner, together with a general application of the therapeutic agents indicated in the treatment of such conditions.

DENTAL JURISPRUDENCE.**Eugene Overton, Esq.**

The lectures on Jurisprudence include qualification and duties of expert witnesses, the importance of dental records, etc., as a means of identification, the limitations of dental practice, the qualifications required, and the liabilities incurred by those who administer anaesthetics, the penalties that may be suffered, and the defense to be made in case of real or supposed malpractice, and the liability in case of infection from instruments; the

requirements of the California law and the laws of other states respecting the practice of dentistry, the steps necessary to become legal practitioners, the duties and liabilities of dentists with reference to the law, etc. This course will be followed by an examination at the end of the first semester.

GENERAL MATERIA MEDICA AND THERAPEUTICS.

Professor T. C. Myers.

Professor Myers will give one lecture a week to the Junior Class.

A study of definitions, abbreviations and terminology used, the nature of disease, the source of drugs in nature, preparations made from crude drugs, methods of administering medicines; agencies that modify their action; the art of prescribing; general classification of drugs; their physical, chemical and poisonous properties, dosage and antidotes, the therapeutic application.

Special attention is given to those drugs that are most valuable in the practice of dentistry.

EXTRACTION AND ANAESTHETICS.

Dr. A. A. Shaw.

This course embraces a series of lectures upon the principles and practices of extracting, together with the use of the various and general anaesthetics. With a well equipped Extracting room and abundant clinical material, the student is afforded ample opportunity of becoming skilled in this work. This course will be given in the Junior and Senior years.

PHYSIOLOGY.

Professor Jenks, Professor Pallette, Dr. Tebbetts.

The course of Physiology is given during the first and second years. The work consists of a systematic course of lectures, recitations and demonstrations.

The subjects of Cells and Tissues, Blood and the Circulatory System, are first taken up, and later the course is devoted to the study of the Alimentary Canal Excretory Organs, Nervous System, Organs of Special Sense, and Organs of Reproduction.

This department will be strengthened this year by the addition of a complete equipment for laboratory demonstration.

PROFESSIONAL ETHICS AND HYGIENE.

Professor J. D. Moody.

Prof. Moody will deliver a course of lectures on these very important subjects. The personal and ethical conduct of the student before and after his graduation have quite as much to do in determining his standing and success in the community, as do his knowledge and technical skill. Attendance at the society meetings is required.

CROWN AND BRIDGE WORK.

Professor Bowman.

Crown and bridge work pertains both to the operative and the prosthetic, and yet it occupies such an important field of dentistry that the College deemed it wise to make of it a separate department.

Students will receive a complete course in Crown technique, as well as lectures during their Freshman year. Juniors will receive a complete course in Bridge technique during the first semester, and will do practical work in the Infirmary during the balance of the year. Seniors will perform practical work in the Infirmary. The principles of construction of all of the various forms of crowns and bridges at present in use will be taught, also a study will be made of the stress applied by the muscles of mastication to the teeth, both singly and collectively, with its bearing upon crown and bridge construction, including the conditions under which bridges should or should not be used. This department is especially well equipped with large drawings of all descriptions, illustrating this branch. The clinical facilities are excellent, requiring Porcelain and Gold Crowns and Bridges.

DENTAL ANATOMY.

Professor Bebb, Dr. Packard.

This coming term will introduce the use of lantern slides for the study of dental anatomy.

This method will be of material benefit to the student, as

the different surfaces of each tooth will be enlarged upon the screen.

The student takes up the study of nomenclature, followed by descriptive human dental anatomy, the arrangement of the teeth and the structure of the root canals.

Drawings and the making of cross-sections of the various teeth enter into this course.

ANATOMY.

Professor Kirkpatrick, Dr. Ellis.

Instruction in anatomy is given by means of lectures, recitations, quizzes and practical demonstrations on the cadaver throughout the entire year.

The dissecting room will be in charge of the demonstrators, who will personally superintend the work of the students and examine them upon their own dissections.

Students model the various bones in clay.

CHEMISTRY.

Dr. Jones.

I. General Chemistry:

A. Lectures, Demonstrations and Text Book.

B. Laboratory Work.

The general principles of inorganic chemistry are reviewed. Especial stress is laid on physical chemistry, so that the student may correctly interpret the modern ideas of matter and the properties of matter. Then the study of the elements and their compounds is taken up; first the non-metals—most of them being prepared in the laboratory. In the study of the metals the application of the principles of chemistry and metallurgy to the dental profession is continually borne in mind.

Qualitative analysis is begun during this year.

II. Metallurgy:

A. Lectures and Demonstrations.

B. Laboratory Work.

In this course only those metals are considered that are of importance to the dentist. These are studied with reference to their physical and chemical properties; their separation and refining, and their identification. The student is given unknown

compounds of these metals and required to identify both metal and acid radical.

The chemistry of the mouth and salivary digestion is considered, both in lecture room and laboratory. And the course is finished by the student preparing several organic compounds in every-day use in his profession—such as chloroform, aristole iodoform, etc.

III. Original Work:

Any student wishing to do work along special lines is encouraged to do so, and the resources of the department are placed at his disposal. The possibility of new and better alloys, cements, better oral antiseptics, etc., is suggested.

PROSTHETIC DENTISTRY.

Prof. Eshelman, Dr. Engstrom.

Realizing that there is no branch of dentistry where students are ordinarily so deficient as in the prosthetic department, we have aimed to develop a practical working course in this line, to the end that our graduates may be able to do this class of work in a practical and artistic manner.

From an artistic standpoint we teach the higher possibilities of the art of restoring the features of the face, together with the staining and grinding of the teeth to meet the conditions of the individual type of the patient.

The fundamental principles of atmospheric pressure, leverage, etc., are dwelt upon, that the student may intelligently meet the conditions presented in difficult cases.

Both technical and practical dentures of all kinds are made, such as vulcanite, celluloid, aluminum, Watts metal, weighted rubber, gold and porcelain continuous gum.

Particular attention is paid to the latter, that the student may be able to restore the teeth of patients by the highest type of artificial appliance known to our profession.

Both practical and technic interdental splints are made for fracture cases, as well as obturators and velums for cleft palate cases.

A dentist may be called upon to restore loss of tissue adjacent to the oral cavity, and that our students may know how to do this class of work, they will be taught the making of celluloid ears and noses.

An overabundance of Infirmary patients, together with all modern appliances for doing the work under the direction of the most competent of professors and demonstrators, enables a student to develop a high degree of skill in this department.

INFIRMARY.

Our Infirmary and clinical facilities are our special pride. The room is large and beautiful, facing north (the ideal light), and is equipped with every modern convenience. The number of patients who apply here for services is truly phenomenal, and no student need fear that his practical education will be neglected. Last year more than four hundred patients in excess of the number that the students could find time to attend to applied for services. From this great clinic we are able to select for the students all of the operations in any given line in which he may desire to specialize, or where we feel that he needs extra experience and practice.

We have arranged the lecture schedule in such a manner that the students can work with little interruption from nine in the morning until four in the afternoon.

In charge of the work as professors and demonstrators we have a number of teachers of long experience and unquestioned ability. The student has the advantage of the personal contact and instruction of these competent men, and is not taught by students or recent graduates.

SCHEDULE OF STUDIES.

Freshman Year—Anatomy, dissecting, physiology, chemistry, chemical laboratory, dental anatomy, comparative anatomy, operative technics, prosthetic technics, crown and bridge technics, histology general, histology dental.

Junior Year—Anatomy, dissecting, physiology, chemistry, organic; metallurgy, general pathology, materia medica, orthodontia, operative technic, operative dentistry, children's teeth; crown and bridge, porcelain, prosthetic dentistry, prosthetic technics, crown and bridge technics, orthodontia technics.

Senior Year—Operative dentistry, prosthetic dentistry, oral surgery, bacteriology, dental pathology, dental materia medica and therapeutics, jurisprudence, ethics and hygiene, children's teeth, anaesthesia and extracting, porcelain.

CONDITIONS OF ADMISSION

SPECIAL NOTICE TO STUDENTS.

Extract from Code of Rules of the National Association of Dental Faculties:

“No college of this Association shall give credit for a full course to students admitted later than ten days after the opening day of the session, as published in the announcement.”

In case one is prevented by sickness, properly certified to by a reputable practicing physician, from complying with the foregoing rule, the time of admission shall not be later than twenty days from the opening day.

Candidates for admission will not be permitted to matriculate for any session other than that immediately succeeding the date of matriculation.

For matriculation in the Freshman class without examination the candidate must have 16 units in subjects representing High School work. Applicants may be admitted upon 12 units provided that the 4 additional units shall be made up before entrance upon the second year of the course.

Prospective students who have not these preliminary requirements, and those who are studying with a view to taking up the profession of dentistry, will be advised by the Dean as to the most advantageous course to elect.

In lieu of such units the applicant will be required to pass a matriculate examination, which shall be the equivalent of that forming the basis of the certificate of required preliminary education.

No student can be received who is not present within ten days after the opening day as announced in the Bulletin, except in cases of sickness, when ten days additional will be allowed.

ADMISSION TO ADVANCED STANDING.

Extracts from rules of the National Association:

That advanced standing in the classes of members of this Association shall not be given to students except in the following instances:

First—Where a student shall have taken a full course in a school a member of this Association, or one especially recog-

nized, or graduation from a reputable medical college, he may receive one year's advanced study.

Colleges of the Association "may receive into the Junior and Senior classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to any college to which they may apply that a previous year has been spent in the institution from whence they came."

REQUIREMENTS FOR GRADUATION.

1. The candidate for the degree of Doctor of Dental Surgery shall be at least twenty-one years of age and of good moral character.

2. He shall have attended three full courses of lectures, of 32 weeks of six days each, exclusive of vacations, at some recognized and accredited dental school. The last course of which shall have been attended at this College.

3. He must have passed satisfactory written examinations by the Faculty on the Lecture Curriculum, and earned a satisfactory rating as to attendance and practical work.

All operating, prosthetic and technic work must be done in the College Infirmary, or the College Building, and exclusively by the applicant for the degree.

RULES GOVERNING STANDING OF STUDENTS AND EXAMINATIONS.

The grades will be made upon the scale of 100: the passing mark will be 75; attendance upon Infirmary clinics 90 per cent; lecture courses and laboratories, 90 per cent.

GENERAL INFORMATION.

When a student is obliged to withdraw from the College before the last four weeks of a session for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Faculty, he shall be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction. This remission to date from the reception by the Dean of a written notice of the student's withdrawal from the College.

Blank forms for application for admission will be sent by the Dean on request.

All fees must be paid in advance for each session, unless special arrangements are made with the Trustees. No student will be admitted for less than the stated fees.

All fees must be paid in full before the final examinations may be taken.

There will be no return of fees by reason of suspension or expulsion.

The matriculation fee must be paid to the Secretary before the name of a student will be recorded.

With the exception of legal holidays, the Infirmary is open the year round. There is no extra charge for the Summer Clinical Course. While not a requirement, it is advised that that the student spend as much time of the vacation period as he possibly can in the actual practice of Dentistry in the Infirmary. This course is very advantageous to the student, as it enables him to get in four solid months of practical work without any interruption for lectures.

The College is not responsible for any personal losses of the students.

All fees due the College are paid to the Secretary at his office in the Infirmary.

Laboratory benches and operating chairs are selected by students in the order of matriculation, and each student is required to occupy the same during the session.

Living expenses are about the same as through the Middle West and cheaper than on the Atlantic seaboard. Arrangements can be made through the College for securing accommodations.

The Faculty reserves the right to terminate the connection of the student with the institution at any time on the ground of what it may deem mental or moral unfitness for the profession, disorderly conduct, or failure to comply with the rules of the College.

The Faculty will expel any student convicted of practicing dentistry illegally while under its jurisdiction.

Students will not be admitted to class work and the Infirmary until after purchasing the required books and instruments.

No degrees will be conferred upon a student who is not present in person at the commencement exercises, unless excused by the Dean.

The College reserves the right to change any of the foregoing regulations at any time that it may deem expedient.

Operations in the technic departments of the school require a large number of natural teeth, and a sufficient supply is sometimes difficult to get. Students will therefore find it to their advantage to bring all the extracted teeth they can obtain.

Alumni and friends of the College are requested to send to the College boxes of extracted teeth. The College will be truly grateful for such favors and will gladly pay all express charges on such packages.

FOUR MEDALS ARE COMPETED FOR.

1. The Cave Medal is given to the student making the best piece of Prosthetic Technic work.

2. The Los Angeles County Dental Society Medal is given the Senior who has made the best average on theoretical work during the College course.

3. The Ford Medal is given to the student making the best piece of Porcelain Technic work.

4. The Atwater Medal is given to the student making the best piece of Operative Technic work.

SCHEDULE OF FEES

Fees payable in two equal installments—October 15th and February 1st. No student will be admitted for less than the stated fees.

FRESHMAN YEAR.

Matriculation fee	\$ 5.00
Lecture ticket	150.00
	<hr/>
	\$155.00

JUNIOR YEAR.

Matriculation fee	\$ 5.00
Lecture ticket	150.00
	<hr/>
	\$155.00

SENIOR YEAR.

Matriculation fee	\$ 5.00
Lecture ticket	150.00
	<hr/>
	\$155.00

These fees include dissecting and all laboratory fees. There are no other charges made by the College.

DEPOSITS, COST OF BOOKS AND INSTRUMENTS.

From beginning his work, each student will be required to procure the instruments necessary for his use.

The approximate cost of books and instruments, all of which are needed after graduation, is as follows: (This includes a dental engine, and gives the student a practical outfit, so that he can start into practice on finishing his course without much additional expense for instruments. A list of the instruments is furnished the student on his arrival.)

Freshman year	\$100.00
Junior year	135.00
Senior year	85.00

Address all communications to the

COLLEGE OF DENTISTRY, U. S. C.,

Lewis E. Ford, D. D. S., Dean.

304 East Fifth Street.

Los Angeles, California.

College of Law.

CONDITIONS OF ADMISSION.

ADMISSION TO FRESHMAN CLASS.

Applicants for admission to the Freshman year must be at least 18 years of age; must furnish two certificates of good moral character; and must pass satisfactory examinations as hereinafter prescribed, unless otherwise qualified to be admitted.

Graduates of high schools maintaining a four years course of study or other educational institutions whose course is equivalent to such a high school course are admitted without examination. Certificates of graduation should be presented.

Other applicants are required to pass satisfactory examinations in each of the subjects of one of the regular four year high school courses.

In special cases the Dean and Secretary have authority to admit as a special student an applicant who has not the required educational qualifications. Such admission, however, is conditional upon the applicant making up such deficiency before he enters the Senior year.

TO ADVANCED STANDING.

Applicants for admission to the Junior or Senior classes must present certificates of the completion by them of work equivalent to that for which they seek to be credited. Certificates will be accepted when issued by a law school belonging to the Association of American Law Schools, or other colleges of law whose requirements are as high and whose course is as extensive as that here given. Applicants for advanced standing not having such certificates must pass examination in the subjects for which they seek credit, but any student who desires to take such an examination must first secure permission to do so from the Dean and Secretary.

Such examinations are given only at the beginning of a semes-

ter. A charge of two dollars is made for each special examination.

The school reserves the right to reject any applicant.

Any student displaying a deficiency in English and diction may at any time be required to take instruction in the class of Expression.

The school reserves the right to expell any student whenever the Board of Control deems it necessary for the welfare of the Law School, and to suspend any student, or use other methods of discipline, whenever deemed advisable by the Dean and Secretary.

SPECIAL EXAMINATIONS.

Any student taking the regular course who desires to omit class attendance on any subject and to take a special examination thereon, shall place in the hands of the Secretary a petition asking for the privilege and stating the student's reason therefor. The petition is referred to the Dean and Secretary. If the permission is granted, a special examination may be given. Such examinations and all examinations for advanced standing, are given at the beginning of a semester, and are passed upon by the instructor teaching the subject, and by the Secretary of the Law School. Passing grade upon all such examinations is 85 per cent.

COURSE OF INSTRUCTION.

The purpose of this college is to impart a sound and thorough legal education and to qualify students for admission to practice in all the courts, not only of this, but of any other state, and in the Federal Courts.

Attention is called to the fact that courses are given in Briefing and the Use of Books. In addition to the briefs required in Moot Court work the members of the Faculty assign subjects for briefs in connection with their respective classes.

The course of study, covering a period of three years, leads to the degree of LL.B.

The Post-graduate course of one year leads to the degree of LL.M.

All regular students of the law department are entitled to

four hours of instruction per week in the College of Liberal Arts without additional cost.

The Degrees of A.B. and LL.B.

When a student in the College of Liberal Arts has received 94 semester credits (including all prescribed work) and of these has taken not less than 72 in the College of Liberal Arts of the University of Southern California, he may enter the College of Law; and upon the satisfactory completion of the professional course receive both degrees, Bachelor of Arts and Bachelor of Laws.

CURRICULUM.

In addition to the following, special lectures are provided during the year upon subjects which though not really required in a legal course, are yet of much value to those desiring a well rounded knowledge of the law.

FIRST YEAR.

First Semester.

Contracts, Criminal Law, Elementary Law and Blackstone, Torts, Use of Books, and Personal Property.

Second Semester.

Contracts, Criminal Procedure, Damages, Torts, Domestic Relations, Bailments and Carriers, Negligence, Agency, and Moot Court.

SECOND YEAR.

First Semester.

Wills, Common Law Pleading, Private Corporations, Real Property I, Commercial Paper, Briefing, Equity Jurisprudence, Constitution Law and Moot Court.

Second Semester.

Private Corporations, Wills, Equity Jurisprudence, Real Property I, Commercial Paper, Partnership, Justice Court Practice, Patents, Statutory Interpretation, Constitutional Law and Moot Court.

THIRD YEAR.**First Semester.**

Code Pleading, Evidence, Public Corporations, Equity Pleading, Mining Law, Water Rights, and Moot Court.

Second Semester.

Code Pleading, Evidence, Real Property II, Mining Law, Federal Procedure, Insurance Law, Bankruptcy, California Lien Law, Appeals, Admiralty, Legal Ethics, and Moot Court.

METHOD OF INSTRUCTION.

The method of instruction is a combination of the lecture, text-book and case systems, with practical experience in briefing and pleading.

ATTENDANCE AND SCHOLARSHIP.

Attendance at ninety per cent of the lectures and recitations is required for promotion or graduation.

Examinations are given at the end of each semester. A grade of 75 per cent on examination daily work, in each subject, is required for promotion or graduation.

Persons who are not studying for a degree may enter the College of Law at any time as special students and may pursue such studies as they desire. This provision is made especially for the aid of those seeking or holding positions of trust in banks and other business institutions.

PUBLIC SPEAKING, VOICE BUILDING AND EXPRESSION.

A course in Public Speaking, Voice Building and Expression will be offered by Miss Beulah Wright, Dean of the College of Oratory, University of Southern California.

The course is designed to meet the needs of the students of the Department of Law. The work is of the most practical character.

It is the aim to teach a student to be simple and natural in his expression, and when occasion shall demand, powerful but at all times to preserve his individuality. A great deal of stress is laid upon the development of the voice for purity, flexibility, and control.

Most of the work done in classes is of an extemporaneous

nature, such as short talks on current public questions, argumentation and debate. Attention is also given to the study and delivery of great orations, as well as the preparation of original orations.

Students doing work in these classes may receive credit in the College of Oratory to apply upon either the Diploma Course or the Certificate Course. It is possible for a student to complete one of these courses during his three years' work in the College of Law.

SUMMER COURSE.

During each summer classes are conducted in a limited number of subjects. During the summer of 1909 the subjects to be taught will be Elementary Law and Blackstone, Bailments and Carriers, Common Law Pleading and one of the Junior subjects which cover less than two periods per week for the year in the regular course.

COURTS.

The Supreme Court of the State holds two sessions each year in Los Angeles, and the students have opportunity to hear carefully prepared arguments by the ablest lawyers of the country.

The United States Circuit and District Courts are held here and opportunity for study of the Federal practice and procedure is thus offered, on both law and equity sides.

The Superior Court of Los Angeles County, consisting of nine departments, is in session the entire year.

Three city Police Courts and four Township Justice's Courts, in which students in the Middle and Senior years can get some actual practice before admission to the bar, are in session daily during the entire year.

LIBRARY.

Students are allowed the use of the Los Angeles County Law Library, consisting of twenty thousand (20,000) volumes, upon the same terms as members of the bar.

The College of Law has a good working library of its own, consisting of State Reports, the Reporter System, Text and other case books, numbering in all over 1500 volumes.

MOOT COURTS.

Students of the Second and Third years are assigned not less

than two cases during each semester, which they are required to conduct through the Superior Court, and one of which must be taken up on appeal through the Appellate or Supreme Courts. Controversies are arranged and assigned upon statements of facts for trial.

All of the steps incident to a contested trial are taken, including preparation of pleadings, argument of motions and demurrers, preparation of briefs, taking of depositions, impanelling of jury, challenges, introduction of evidence, argument of case, etc.

Students of the First and Second years act as witnesses, client and jurors. These trials are presided over by a member of the Faculty and are conducted as nearly as possible in the same manner as trials in actual courts. Each student in the First and Second years must write at least three briefs which are examined and graded by the Judges of the Moot Court.

The Moot Courts consist of the Justice's Court, Superior Court, the Court of Appeal and the Supreme Court. The procedure conforms to that of the State of California with pleadings under the Code. Each firm is composed of a member of the Senior class and a member of the Junior class. Sessions of the courts are held weekly. A student acts as clerk of the Moot Court, and is at the Law School throughout the day.

Such a course of practical training is of inestimable value to one who intends to locate in California, or in any of the Western code states.

NIGHT SCHOOL.

Beginning with the year 1908 to 1909 a section of the Freshman class is conducted as an Evening School. During the year 1909 to 1910 this arrangement will be extended to Junior subjects. Students attending Night School take as many or as few courses as they desire. By taking all of the courses offered they may complete the work and secure their degree in four years of Night School work, or they may take two years of Night School work, attend two sessions of the Summer School and complete the course in three years by taking the third year with the regular day class. The subjects taught in the Freshman class are Torts, Contracts, Elementary Law and Black-

stone, Criminal Law and Procedure, Agency, and Bailments and Carriers.

POST-GRADUATE COURSE.

During the year 1908-1909 a Post-Graduate course of one year is being given. The degree of Master of Laws (LL.M.) is conferred upon those who have previously received the degree of Bachelor of Laws (LL.B.) from any Law School which is a member of the Association of American Law Schools or from any other approved Law School maintaining a three-year undergraduate course, on completion of an approved course of graduate study equivalent to ten yearly periods.

The following are the subjects of which the Post-Graduate course consists:

International Law, Spanish and Mexican Land and Mining Law, Contracts in Restraint of Trade, Interstate Commerce, Codification, Extraordinary Legal Remedies, Public Officers, Conflict of Laws, Logic, Jurisprudence, Juristic Encyclopedia, Historical Review of Modern English Theories, American Common Law.

The following are books of reference to be used in connection with the subjects of Elements of Jurisprudence and American Common Law:

1. **Institutions of Justinian** (Translation and Original).
2. **Mackelday's "Roman Law."**
3. **Ortolan's "History of the Roman Law"** (Translation, Butterworth & Co., 7 Fleet St., London).
4. **"Outlines of the Science of Jurisprudence"** (Translated and Edited from the Juristic Encyclopedias of Puchta, Friedlander, Falch & Ahrens, T. & T. Clark, Edinburgh).
5. **Theory of the State** (Bluntschli, Clarendon Press, Oxford).
6. **Hobbes' "Leviathan."**
7. **Herbert Spencer's "Social Statics," and "Justice."**
8. **Kant's "Philosophy of the Law"** (Translated. T. T. Clark, Edinburgh).
9. **Austin's "Jurisprudence."**
10. **Holland's "Jurisprudence."**
11. **Markby's "Elements of Law."**

12. Aristotle's "Politics," "Ethics," and "Rhetoric" (Bohn's Library).
13. Whateley's "Logic."
14. Jevon's "Lessons in Logic."
15. Sigwart's "Logic."
16. Bacon's "Advancement of Learning," "Novum Organon" and "Essays."
17. "Elements of Right and of the Law" (Smith, Callahan & Co., Chicago).
18. "Theory of the State" (Smith, "American Philosophical Society" Philadelphia).
19. "Logic or the Analytic of Explicit Reasoning" (Smith, Putnam Sons, N. Y.).
20. "Logic and Its Uses; a Lawyer's View" (Smith, "American Law Review").

DEBATING CLUBS.

The Freshman Debating Club is under the supervision of the College and attendance at 70 per cent of its meetings is compulsory on all regular students of the Freshman class.

The Dean of the College of Oratory directs the work.

The Lyceum is a club having a restricted membership, and is composed of members of the Junior and Senior classes.

Several debates between the College of Law and other institutions of learning are arranged yearly.

ORATORICAL ASSOCIATION.

The Law School Oratorical Association is organized for the purpose of stimulating interest in oratory.

Occidental College, Pomona College, Whittier College and the University of Southern California compose an Oratorical Association. Students of the Law Department are eligible as representatives of the University in the contests.

A cash prize of \$75 is awarded the winner of the local try-out; \$15 is awarded the contestant taking second place, and \$10 is given the one taking third place.

The same colleges compose a Prohibition Oratorical Association. A cash prize is awarded the winner of this contest. Raphael H. Blakesley, of the College of Law, won both the

home and inter-collegiate oratorical contests of this Association for the year 1907-08.

ALUMNI MEDAL.

This prize is an unusually elaborate gold medal, which is presented each year at commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole College course. This medal was awarded in 1907 to Kemper B. Campbell.

FRATERNITIES.

The legal fraternity of the Phi Delta Phi has a chapter here, known as Beatty Chapter.

Students intending to organize a fraternity must first obtain the consent of the Dean and Secretary.

ATHLETICS.

Regular students of the College of Law enrolled in the Junior and Senior classes take part in all intercollegiate athletic events in which the University participates, and the members of the Freshman class are eligible to all except Conference Meets.

ADMISSION TO THE BAR.

Graduates of the University of Southern California, College of Law, are admitted to the bar upon motion and without examination.

EASTERN STUDENTS.

An increase in the number of Eastern students attending the University of Southern California is noted each year and expected. An opportunity is afforded to spend a few years in Southern California and at the same time fit oneself for the practice of law. Those intending to practice in common-law states should notice that an entire semester is devoted to the study of common-law pleading. It is the aim to fit the graduates of this College to practice law in any state.

FEES AND EXPENSES.

An entrance fee of \$10.00 is required upon registering.

Tuition fees are \$75.00 per year, if paid in advance at the beginning of the college year, or \$42.50 per semester.

Failure to pay fees when due debars from the class room. Students who are compelled to withdraw from school on account of sickness will have a part of their tuition refunded upon application.

FEES FOR CLASSES IN EXPRESSION.

Fees for tuition in Public Speaking, Voice Building and Expression are \$10 per semester, or \$18.50 per year in class. These classes occupy two periods of 45 minutes each per week. The tuition charged for private lessons is as follows:

One lesson per week (30 minutes)	.	.	\$25.00
One lesson per week (45 minutes)	.	.	37.50
Ten lessons per week (30 minutes)	.	.	15.00
Ten lessons per week (45 minutes)	.	.	22.50
Single lessons (30 minutes)	.	.	2.00
Single lessons (45 minutes)	.	.	3.00

ROOMS AND BOARD.

Students on arriving at Los Angeles can obtain information in regard to rooms and board by calling at the office of the Secretary of the Law College.

Although the School cannot agree to secure students positions in offices, yet it will assist those who desire to make such arrangements, and it may be here stated that ordinarily no serious difficulty is experienced in finding such opportunities.

Those desiring further information relative to the College of Law may obtain it by writing for its special Announcement.

Address all communications:

University of Southern California College of Law,
Exchange Building, Los Angeles, Cal.

The College of Music.

The musical department of the University was founded twenty-two years ago. By a faithful adherence to high standards its faculty have brought it to a well recognized position in higher musical education. Its diplomas have all the prestige which comes from its long establishment and the name of the University. Its graduates and former students are taking prominent places in the musical world all over the Southwest, both as teachers and performers.

Extended courses are offered in a wide range of musical subjects. The end sought in every branch pursued by the student is such thoroughness as will give him a genuine accomplishment and true culture or insure him the mastery expected of a professional.

Its unusually strong faculty, including some of the most widely known teachers in the Southwest, and its thorough courses of instruction, beside its location in connection with the University, make it an ideal school. Its aim is to make well-grounded musicians and not mere performers.

ADVANTAGE OF COLLEGE STUDY.

The general spirit of earnest study characteristic of an institution of higher learning such as the University has been found to react very beneficially on the student of music, who, too often, is inclined to superficiality. Breadth of character and liberal ideas are more surely attained in the atmosphere of general education than in that of specialized study.

Among the many points of superiority of college study in music may be mentioned the regular attendance at lessons required; the musical atmosphere created by the recitals, lectures and class work; the incentive to greater effort by observing the proficiency of others; the sharpening of the critical faculties and the development of taste by hearing other students perform; the opportunity given for obtaining in class work at very slight expense, the very best of training in the theoretical

studies such as harmony, theory and history of music—studies which are essential to the well-grounded musician and which the private teacher cannot touch upon in the lesson hour.

EQUIPMENT.

The College of Music occupies the south wing of the main building. The interior is thoroughly modern and artistic in finish and furnishings. It contains a commodious and elegant reception hall, furnished as a reception and reading room, also cloak room and lavatories, lecture hall and recital hall, and a large number of exceptionally large and attractive studios. Nothing superior to it in the way of a music school home can be found in this section.

The school is equipped with a full complement of teaching and practice pianos. The pipe organ in the college chapel is available for practice only to our students. It is blown by electric motor and the charge for rental is no more than blower's fees would be in an organ blown by hand.

RECITALS.

A feature of the greatest value to the students is the weekly pupils' recitals, at which the pupils are expected to play or sing before the whole school, as their teachers may direct. Public performance is an art in itself, and can only be mastered by many public appearances. Pupils who acquit themselves creditably at the recitals before the music students only, are allowed to appear at the public recitals of the school. A practical familiarity is thus gained with the music of the other branches represented outside of the student's specialty. Recitals are also given by the faculty from time to time, who are also frequently heard in the recitals given by the advanced pupils. Music students have free admission to all public exercises of the school.

ARTISTS' RECITALS.

All educators agree that nothing is so helpful to a student as hearing the best music when rendered by superior artists. The opportunities offered in Los Angeles for hearing the best in art are superior to those in many Eastern cities of the same size. Many of the world's greatest artists visit the city each season.

Pupils are urged to hear as many of these as possible and special rates are offered in most cases.

THE COURSE OF STUDY.

The educational system of the school is divided into two general departments: the Preparatory and the Normal or Collegiate.

All beginners are received in the preparatory department, whether they plan for the regular advanced courses or merely desire the best of training during the time they devote to the study. Correct elementary teaching is the most important and, in some respects, the most difficult of all. It is the aim of the school to advance pupils as rapidly as is consistent with thoroughness and the formation of correct habits.

The Normal or Collegiate department is designed for students preparing for the profession as teachers and artists and for amateurs desirous of obtaining a thorough training in the art and science of music.

FREQUENCY OF LESSONS.

Too much emphasis cannot be laid upon the importance of frequent lessons. The fact that a pupil's practice time is limited to two or even one hour a day does not mean that one lesson a week is sufficient to insure correct progress. A pupil need not practice any more for two lessons than for one a week.

At every piano lesson, for example, must be considered matters of technic, which includes position, conditions and action of fingers, hands, arms and body; correct reading of notes; time; fingering; musical signs; pedal; expression; musical form; phrasing; and other things which the special needs of each pupil may suggest. To carefully criticize the pupil's past work and lay out the future in all these details so that past errors shall not be repeated or new ones be made, is the part of the teacher; in other words, to guide and direct the pupil's practice. To do this adequately in one lesson a week is well nigh impossible for the teacher, and to remember the teacher's criticism and suggestions for so long a time, still more impossible for the pupil. No matter how careful pupils mean to be, errors will creep into their work, faulty practice will be done before the week is over, and work will have to be undone and done again. This means

delayed progress and, from a financial point of view, increased expense. This is especially true with children just commencing study, who should, if possible, see the teacher three times a week.

Our experience, in common with that of all conscientious teachers, leads us to believe that taking but one lesson each week is the greatest mistake a pupil can make.

DIPLOMAS.

The diploma of the University is given at the completion of the Normal or Collegiate course.

The requirements for graduation in any department are the completion of the prescribed course in that department, at least one year's work in which must be done in this school; the completion of the Normal course of four semesters in harmony and ear training, one semester in musical theory and two semesters in musical history, and the public performance during the senior year of an entire program under the direction of the department teacher.

Organ students will also be required to take the semester of "key-board harmony." Vocal students are required to take one year of piano work.

TEACHERS' CERTIFICATES.

Teachers' Certificates will be given to those who have completed the work of the Normal course, but who for any reason are unable to give the public recital required for graduation.

COLLEGE CREDITS.

Credits will be given in the College of Liberal Arts for musical work as follows: Two semester hours per term will be credited to students making passing grade in any one of the theoretical studies or advanced vocal or instrumental work, the total credits in any case not to exceed fifteen.

BUSINESS REGULATIONS.

Students entering after the opening of the term will register for the remaining portion, and will be charged pro rata. The work of the term begins on the date advertised, and students who enter late will find themselves behind their classes.

Students taking less than one-half term in class work will be charged for the half term; those taking more than a half term will be charged for the full term.

All students are required to attend the regular recitals of the school and to take part in them whenever so assigned.

No deduction will be made for occasional absence from lessons or for lessons discontinued without notice. Lessons missed will be made up to pupils, if notice of the intended absence is given three days in advance.

Lessons falling on national holidays are not lost to students.

Sheet music will be furnished students at teachers' rates, if paid for on delivery.

A discount of fifteen per cent is allowed to the children of Methodist ministers. This discount applies to vocal and instrumental work only.

Settle all accounts at the office only, making checks payable to THE DEAN.

TERMS: Payment in ADVANCE for each month's tuition will be expected by the 7TH OF THE MONTH or on enrollment.

TERMS OF TUITION.

By the Semester of nineteen weeks.

PIANO OR ORGAN.

Mr. Skeele.

Three-quarter hour lessons, one per week.....	\$47.50
Three-quarter hour lessons, two per week.....	95.00
Half hour lessons, one per week.....	38.00
Half hour lessons, two per week.....	76.00

PIANO.

Miss Trowbridge or Mrs. Brimhall.

Three-quarter hour lessons, one per week.....	\$28.50
Three-quarter hour lessons, two per week.....	57.00
Half hour lessons, one per week.....	23.75
Half hour lessons, two per week.....	47.50

Miss Arnett.

Three-quarter hour lessons, one per week.....	\$23.75
Three-quarter hour lessons, two per week.....	47.50

Half hour lessons, one per week.....	19.00
Half hour lessons, two per week.....	38.00

Miss Patton (Dunning System).

Hour lessons in classes of four to six.....	\$28.50
Half hour private lessons, one per week.....	19.00

VOCAL.

Mr. Miller.

Half hour lessons, one per week.....	\$47.50
Half hour lessons, two per week.....	76.00

Mrs. Robbins.

Forty minute lessons, one per week.....	\$47.50
Forty minute lessons, two per week.....	76.00
Half hour lessons, one per week.....	38.00
Half hour lessons, two per week.....	57.00

THEORY, HARMONY OR HISTORY.

Mr. Pemberton.

Class lessons, two per week.....	\$15.00
Private lessons, one per week.....	28.50

VIOLIN.

Mr. Pemberton.

Hour lessons, one per week.....	\$38.00
Hour lessons, two per week.....	76.00

Mr. Seiling.

Three-quarter hour lessons, one per week.....	\$47.50
Three-quarter hour lessons, two per week.....	95.00
Thirty-five minute lessons, one per week.....	38.00
Thirty-five minute lessons, two per week.....	76.00
Rental of Pipe Organ, one hour each day, including blowing, per term	\$17.10
Rental of Pipe Organ, two hours each day, per term.....	34.20
Rental of Piano, one hour each day, per term.....	4.00

CALENDAR.

The school year is divided into two semesters, or terms, of nineteen weeks each.

Monday, September 13, First semester begins.

Monday, December 20, to Monday, December 27, Christmas vacation.

Saturday, January 29, First semester closes.

Monday, February 2, Second semester begins.

Saturday, June 11, Second semester closes.

Friday, June 10, Annual commencement concert.

Thursday, June 16, Commencement exercises of the University and the conferring of diplomas.

For further information as to courses, etc., address

W. F. SKEELE, W. Thirty-fifth Street and Wesley Avenue;
phone 22121; Residence, 215 Thorne Street; phone 39368.

College of Oratory.

The system used in the College of Oratory is based upon the Cumnock Method, founded by Robert McLean Cumnock, L.H.D., Director of School of Oratory, Northwestern University, Evanston, Illinois.

The aims of the College are:

To develop the inner man.

To prepare the body to express the inner man.

The method is neither imitative nor mechanical, but is founded upon psychological principles.

The pupil acquires the power to interpret for himself and to express emotions through his own individuality. The result is a naturalness and simplicity of manner together with personal power.

A great deal of attention is paid to the Department of Public Speaking. Ministers, theological students, or any who may have occasion to address audiences, will find this work of great value.

COURSES OF STUDY.

(Class Work.)

Course 1. Fundamental principles of expression, English phonation, enunciation, interpretation of selections from Cumnock's Choice Readings. **Two hours, first semester.**

Course 2. Voice building, breathing, tone placing, bodily expression, interpretation of selections from Cumnock's Choice Readings. **Two hours, second semester.**

Course 3. Interpretation from modern writers: Kipling, Barrie, Van Dyke, Riley, Kate Douglas Wiggin, Maclaren, Dunbar and others. **Two hours, either semester.**

Course 4. A study of Lyric Poems: Wordsworth, Browning, Tennyson, Burns, Lanier, Arnold, Dickens, and others. **Two hours, either semester.**

Course 5. Voice, Relaxation, Concentration, Breathing, Tone Placing, Rhythm, Phrasing. **Two hours, one semester.**

Course 6. Debate and Extemporaneous speaking. **Two hours, either semester.**

Course 7. Oratory. A study of master-pieces of Oratory. Text Sears' History of Oratory. **Two hours, either semester.**

Course 8. Shakespeare: Julius Caesar, or King Richard II; Twelfth Night, or Two Gentlemen of Verona; Midsummer's Night Dream. **Two hours, either semester.**

Course 9. Artistic Anatomy. A summary of Anatomy intended for the study of forms, attitude and movements. Text: Fival's Artistic Anatomy. **Two hours, first semester.**

Course 10. Repertoire, abridgment of books and classics for public presentation, arrangement of program, impersonation. Advanced students only. **Two hours, second semester.**

Course 11. Bible and Hymn Reading; Vocal Expression of the Bible and Hymns, Voice Building. Text: Curry's Vocal Interpretation of the Bible. **Two hours, either semester.**

Course 12. Assembly. All private pupils meet with the Dean to pursue a course in the Art of Expression. **Two hours, both semesters.**

Course 13. Dramatic Club. Interpretation and presentation of the drama. A study of dramatic law. **Two hours, both semesters.**

Course 14. Physical Expression. Two years of training for physical development and the acquiring of grace and harmony in all bodily movements. **Two hours, both semesters.**

DIPLOMA COURSE.

The work required in this course consists of: Three years of private work, two lessons per week; the fourteen courses; one year advanced Physical Training; College work sufficient to enroll a student as a Junior in the College of Liberal Arts.

CERTIFICATE OF EXPRESSION.

The work required in this course consists of: Two years of private work, two lessons per week. Courses 1, 2, 3, 5, 9, 10, 12, 13, 14, and two of the remaining five courses to be elected; one year of Gymnasium work.

Students wishing to complete this course of study must have at least one year of History, and two years of English.

CERTIFICATE OF PHYSICAL TRAINING.

The work required in this course consists of: Two years of private work in physical training, two lessons per week. Courses 1, 2, 3, 5, 9, 13, 14 and three of the remaining seven courses to be elected; two years of general work in the Gymnasium.

Students wishing to complete this course must have at least one year of Physiology or Hygiene.

RECITALS.

Pupil's recitals are given every two weeks, on Wednesday at 3:50 p. m., in the Athena Literary Hall. The participation in these recitals by students is required that the student may have practice and gain confidence in appearing before audiences. All students enrolled in the school are expected to be present at each recital. Admission to friends is by card.

Faculty recitals are given each semester by the instructors in the school, or by artists from the outside.

PHYSICAL EXPRESSION.

"Is not that the best education which gives to the mind and to the body all the force, all the beauty and all the perfection of which they are capable?"—Plato.

Special classes in Physical Culture are conducted for the Oratory students. The laws which underlie Physical Expression are here studied and such exercises are given as will best develop the pupil toward health, expressiveness of movement and grace. It is the aim of this work to bring the body under perfect control of the will, and to teach the principles of gesture in such a manner as to give spontaneity and freedom from affectation.

CHILDREN'S DEPARTMENT.

This course is planned for children under twelve years of age. Classes are organized in expression, where the children are trained in common reading and in the delivery of recitation.

Classes are also formed in Physical Culture, where children are taught correct breathing, standing, walking, sitting, and ease and lightness of movement. Exercises are given to cor-

rect individual faults of body, such as round shoulders and hollow chests.

TUITION.

Fees are payable to the Dean in advance.

Instruction per semester (18 weeks).

Full course, including two private lessons per week, four or more classes in Expression, one study in the Academy or College of Liberal Arts.

Paid in advance for the year.....	\$130.00
Full course, per semester.....	70.00
Two private lessons per week (30 minutes).....	50.00
One private lesson per week (30 minutes).....	25.00
A course of ten lessons (30 minutes).....	15.00
One private lesson per week (45 minutes).....	37.50
A course of ten lessons (45 minutes).....	22.50
Single lessons (45 minutes).....	3.00
Single lessons (30 minutes).....	1.50 to 2.00
Class, two periods per week (55 minutes).....	10.00
Dramatic Club, two periods per week (55 minutes).....	10.00
Coaching plays (60 minutes)	1.50

PHYSICAL EDUCATION.

Full certificate course.....	\$60.00
One private lesson per week (30 minutes).....	25.00

CHILDREN'S DEPARTMENT.

Two private lessons per week, Expression (30 minutes)...	\$35.00
One private lesson per week, Expression (30 minutes)....	20.00
Class Expression, course of 15 lessons.....	8.00
Class Physical Culture, course of 15 lessons.....	5.00

A discount of 10 per cent on all private work will be given to ministers.

The diploma fee is \$10.00.

The certificate fee is \$5.00.

A student in the College of Liberal Arts may elect a maximum of fifteen hours in the College of Oratory.

University of Southern California College of Oratory,
Thirty-fifth Street and Wesley Avenue.

Miss Beulah Wright, Dean.

College of Fine Arts.

CALENDAR 1909-1910.

September 14, 1909—Enrollment of students.

September 16, 1909—Commencement of class work.

Christmas vacation begins December 24, Friday.

Class work resumes January 3, 1910, Monday.

Examination in Osteology and special branches last week in January.

Second semester begins February 1.

Examinations in Anatomy, Art History, Mythology, and Technique begin June 1.

June 11—Commencement exercises.

All legal holidays of the State of California and the city of Los Angeles will be observed.

THE COLLEGE.

The plan of art teaching adopted by the College of Fine Arts eight years ago, although new in the West, has proved splendidly successful. This plan bears the same relation to the ordinary art school as a college of liberal arts bears to the ordinary grade school. A broad and liberal culture in art is its purpose as well as a high grade of attainment in special lines of art practice and teaching. This plan is made possible by the more efficient teaching of art in grade and high schools in recent years.

Owing to its superb location and perfect adaptation to its purpose this school offers more advantages in the way of convenience, comfort, salubrity, outlook and abundance of painting material than any other school in the West.

COURSES OF STUDY.

The full College course includes clay modelling, mechanical drawing, projection, perspective, freehand drawing, painting in water color and oil, art history, mythology, sacred history, anatomy and the art crafts. The course covers three full years'

work and entitles the student to a diploma on passing the required examination.

ARCHITECTURE.

This course includes practical geometry, perspective, projection, building construction, history of architecture and mathematics.

SCULPTURE.

The sculpture course includes drawing, clay modeling, casting, anatomy and art history.

PAINTING.

The painting course includes drawing, technique in water and oil, anatomy, chemistry of pigments, color harmony and composition.

ANATOMY.

Artistic anatomy includes study of the skeleton, superficial muscles and movements from life.

ILLUSTRATING.

This course embraces the technique of charcoal, pencil, pen and brush work, anatomy, the principles of design and composition.

THE ART CRAFTS.

There are classes in design, pottery, brass work, ornamental forged iron work, book binding, leather tooling and jewelry.

DESIGNING.

The course in design covers mechanical drawing, composition, the history and principles of ornament, color harmony, the constructive requirements of fabrics, glass work, fictile products, metal work, etc.

POTTERY.

This course includes clay modeling, the potter's wheel, moulding, glazing, firing, underglaze painting, harmony and design.

Credits are allowed for work accomplished elsewhere.

Certificates are granted on the satisfactory completion of special courses.

A diploma is granted on the completion of the three-year course with a satisfactory examination.

The degree of Bachelor of Fine Arts will be granted on the completion of four full school years of study and the execution of a meritorious original work of art to the satisfaction of the examiners.

Students in special branches may enter the school at any time during the school year.

CLASSES.

Classes begin every week day at 9 a. m. and 1 p. m. from the life model, landscape, cast, still life and architecture.

There is a special class in modeling from life on Thursday mornings.

There is a special class in landscape on Friday mornings.

Lectures on art history, mythology and anatomy on Mondays, Tuesdays and Wednesdays.

Competitions in design on the first Wednesday in each month.

During the summer months a landscape class and a teachers' class are maintained from June 15th to September 15th.

FEES.

Full collegiate year	\$85.00
Per semester (19 weeks).....	45.00
Six lessons per week, per month.....	12.00
Five lessons per week, per month.....	11.00
Three lessons per week, per month.....	6.50
One lesson per week, per month.....	3.50
Graduation fee	5.00

No charge is made for models, lockers, boards, easels, clay, etc.

Materials are furnished to students at wholesale rates.

The lectures are free to all enrolled students.

All fees are payable in advance.

The College of Pharmacy.

CALENDAR, 1909-1910.

1909.

October 18...Monday—Regular term begins at the College Building.

November 25...Thursday; November 26, Friday—Thanksgiving vacation.

December 20...Monday—Christmas holidays begin.

1910.

January 3.....Monday—Lectures resumed.

May 29.....Term Closes.

June 17.....Thursday—Commencement.

On all legal holidays of the State of California the calendar will be suspended.

FACULTY.

George Finley Bovard, A. M., D. D.,

President of the University.

Walter T. Taylor, Ph. G.,

Dean and Professor of Pharmacy.

Charles W. Hill, Ph. G.,

Professor of Materia Medica and Pharmacognosy.

Laird J. Stabler, M. S., Ph. C.,

Professor of Chemistry and Toxicology.

Albert B. Ulrey, A. M.,

Professor of Physiology and Botany.

Arthur R. Maas, Ph. C.,

Associate Professor of Pharmacy.

Ethel W. Graves, A. M.,

Assistant Professor of Inorganic Chemistry.

Andrew C. Life, A. M.,

Assistant Professor of Microscopy.

Howard A. Peairs, A. B.,

Lecturer on Pharmacal Jurisprudence.

Erwin H. Miller, B. S.,

Lecturer on Food and Drug Adulteration.

L. Schiff,

Lecturer on Commercial Pharmacy.

Dean B. Cromwell,

Director of Physical Education.

ADVISORY BOARD.

Walter Lindley, M.D., LL. D.

Granville McGowan, M.D.

L. N. Brunswig

L. D. Sale

F. M. Boswell

Frank Moore

F. F. Bothwell

F. W. Braun

COLLEGE OF PHARMACY.

The demands of pharmaceutical progress today require representatives who possess technical knowledge. To supply this demand, the College of Pharmacy is affiliated with the University of Southern California; its aim and purpose being to create a means for higher pharmaceutical education, and supply a broader foundation for the students' future professional career, by providing systematic instruction and special training in those subjects requisite for the successful practice of pharmacy.

COURSE OF INSTRUCTION.

The system of instruction will include lectures, demonstrations, recitations, written and oral examinations, as well as individual instruction in operative and dispensing pharmacy, organic, inorganic and analytical chemistry, botany, materia medica, pharmacognosy, toxicology, hygiene, physiology, sanitary science, food and drug analysis and microscopy, with special lectures upon business topics especially suited to the retail pharmacist.

The session will open October 18, 1909, and will continue until May 29, 1910, and the schedule will be conducted during the forenoon so as to allow students the privilege of retaining their positions as clerks in the stores of Los Angeles and neighboring towns while attending college. The hours of instruction are from 8 a. m. to 12 m.

REQUIREMENTS FOR ADMISSION.

Applicants for admission must be at least seventeen years of age, and must furnish evidence of their ability to prosecute the work of the course successfully. The preliminary education should be equivalent to that required for entrance to high school.

ADVANCED STANDING.

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this College.

COURSES OF INSTRUCTION.

PHARMACY.

Professor W. T. Taylor.

Professor Arthur R. Maas.

Junior Year—Eight hours per week.

The lectures of the Junior year will treat of the history of Pharmacopoeia. Weights and measures, percentage solution and the arithmetic of dispensing and manufacturing pharmacy, owing to their importance, will be considered at length. Specific gravity and specific volume will be taught by demonstrations, using the various apparatus for the purpose, accompanied by a thorough explanation of each. Heat will next be considered, then the operations wherein heat is used; evaporation, distillation, sublimation, desiccation, exsiccation, etc. This will be followed by a discussion of the preservation of crude drugs and their preparation for manufacturing purposes; then the operations of decantation, filtration, clarification, maceration, infusion, decoction and percolation.

Alternating with the subject of operative pharmacy, the galenical preparations will be critically studied; while they will be discussed from the standpoint of their several classifications, such individual preparations as merit it will be given special consideration, the object being to familiarize the student with the reasons for each step taken in the manufacture of the different preparations.

Senior Year—Eight hours per week.

The lectures of the Senior year will embrace the study of the inorganic and organic acids and the salts of the different metal-

lic bases; the commercial methods of preparation will be touched upon, and a special effort will be made to teach the student how to prepare them extemporaneously when necessity arises therefor. In addition to the official compounds, those unofficial ones which through frequency of use merit it, will likewise be treated of.

This will be followed by a study of alkaloids and the neutral principles of vegetable drugs.

Extemporaneous pharmacy will then be taken up and will include a thorough discussion of dispensing. Facsimiles of physicians' prescriptions will, by means of the stereopticon, be thrown upon a screen, and the class drilled in reading those that are difficult legibly. Chemical and pharmaceutical incompatibilities will be taught, and best methods discussed for overcoming same.

PHARMACAL JURISPRUDENCE.

Mr. Howard A. Peairs.

The course consists of lectures to the Senior Class in which the rights and responsibilities of pharmacists and the laws affecting the same are taken up and fully discussed.

MATERIA MEDICA.

Prof. C. W. Hill.

This course consists of one lecture or recitation and one laboratory exercise of two hours per week, and will present the subject in as broad, yet concise, form as possible. It will be confined to that instruction which will be of greatest benefit to the student when the course is completed, giving larger consideration to those drugs of animal or vegetable origin which in commerce are most frequently met with.

The lessons and lectures in Materia Medica will be based upon the pharmacopoeia; at the same time due observation will be given to those remedies which are unofficial. The order in which these agents will be taken up will be based upon a commercial classification, studying first the roots, which will be sub-classified according to analogous ??????

PHARMACOGNOSY.

Instruction will be given two hours per week in this branch of studies, by lectures, as well as by recitations, quizzes, home

study and examination of drugs—all these will be given with the view of enabling the student the more readily and thoroughly to identify the drug and give judgment as to quality.

Each drug will be considered as to its nature, origin, commercial and botanical relation, and microscopical structure, active principles, therapeutic action, doses.

Adulterations, admixtures and substitutions will be thoroughly discussed.

CHEMISTRY.

Professor Laird J. Stabler.

Ethel W. Graves.

Junior Year—Eight hours per week.

The course consists of two lectures or recitations and two laboratory exercises of three hours per week. The essential points of chemistry needed by a pharmacist are covered very thoroughly. A study is made of the laws governing chemical action and the properties of the common elements and their compounds.

The lectures are practically demonstrated by experiments which assist the student in gaining a clear knowledge of the subject.

Junior Laboratory Course. The student is provided with a complete equipment of apparatus for qualitative analysis. Particular attention will be given to the separation and identification of the compounds of the U. S. Pharmacopoeia, together with tests of purity.

Senior Year—Eight hours per week.

The work of this year is devoted to Organic Chemistry, Toxicology and Urine Analysis. The course will consist of lectures and practical laboratory work throughout the year on these subjects.

Organic Chemistry. The course will cover the whole field of this branch which is so important to the pharmacist. Special attention will be paid to those compounds which are of pharmaceutical value, including synthetical and medicinal preparations.

Toxicology and Urine Analysis. The work will include lectures and practical laboratory work in the identification of the common poisons and a careful study of the abnormal con-

stituents found in urine. Each student will make a complete analysis of a large number of samples from the hospital clinics.

Quantitative Chemistry. This course will cover the usual gravimetric and volumetric determinations. It will be a practical course in estimating the strength of pharmaceutical preparations.

Food and Drug Analysis. The latter part of the Senior Year will be given over to Food and Drug analysis. The course will consist of lectures and laboratory work. Each student will be required to make a number of assays of U. S. P. preparations and also to examine food products for preservatives and adulterants. The official methods of analysis of the Department of Agriculture will be used.

BOTANY AND MICROSCOPY.

Professor Ulrey. Assistant Professor Life.

The course in Botany comprises a thorough study of flowering plants during the Junior year and a survey of cryptogamic plant life in the Senior year.

Each phase of the subject is presented with reference to the special needs of the pharmacist. The complete course is sufficiently comprehensive to afford an acquaintance with all of the great departments of botany.

The course includes a study of the gross structure, functions and classifications of plants; the microscopic structure of the tissues and lower forms of plant life.

The laboratory for microscopic work is equipped with a good grade of compound microscopes, several hundred prepared slides and a complete electrical projection apparatus for demonstration of microscopic objects on the screen.

PHYSIOLOGY, HYGIENE AND SANITARY SCIENCE.

(See College of Pharmacy catalogue.)

EMPLOYMENT.

The course of lectures has been so arranged as to permit those who desire it to devote a portion of their time to employment.

The Secretary will keep a register of students seeking such employment, and will give every assistance possible in procuring it for them.

FEES AND EXPENSES.

Tuition Fees. The tuition fee for each year is eighty-five dollars. The payment of this fee entitles the purchaser to one continuous course of lectures and laboratory instruction in all departments. The tuition fee covers all drugs, chemicals and other materials (with the exception of a few expensive drugs and chemicals) consumed by the student in the laboratories.

Special students may, by permission of the faculty, take any part of the course at a proportionate tuition fee, providing that such fee shall not be less than twenty-five dollars.

Laboratory Deposit. Chemical and pharmaceutical apparatus and supplies, together with microscopes and other implements required in the work of the course are furnished by the College without expense to the student, but breakage or damage to apparatus must be paid for, and for this reason each Junior or Senior student is required to deposit ten dollars with the Secretary. This deposit, or such portion of it as is not required for the specified purpose, will be refunded at the close of the term.

A diploma fee of ten dollars will be required.

Payment of Fees. All fees must be paid at the beginning of the term. Where this is impossible, the Laboratory Deposit and at least one-half of the tuition must be paid upon entering the class. The balance of tuition to be secured by note to be paid sixty days from date of matriculation.

All fees must be paid before the final examinations are taken.

Special Students. Students may matriculate for any separate course. Medical students will find a systematic instruction of pharmacy an excellent foundation for a medical course. The instruction offered in this school of pharmacy will give a working knowledge of chemistry as it is applied in the engineering and metallurgical industries.

CORRESPONDENCE.

For further information write for the College of Pharmacy catalogue.

Letters of inquiry will receive careful and prompt attention. Address all communications to College of Pharmacy, 36th St. and Wesley Ave., Los Angeles, Cal.

The College of Theology.

The Maclay College of Theology was founded about twenty years ago by State Senator Chas. Maclay in a generous endowment of lands in the San Fernando valley. Rev. R. W. C. Farnsworth, presiding elder of the Los Angeles district, was its first dean, the faculty being completed by the appointment of Reverends Fletcher B. Cherington and James Blackledge. On the death of Dean Farnsworth, the Rev. R. S. Maclay, D.D., the veteran missionary from the Orient, was called to the headship of the college which bears his name. When advancing years and failing strength caused the resignation of Dr. Maclay, the Rev. Geo. Cochran, D.D., was called to succeed him.

Through all this period the college had been doing excellent work, coming about the time of the succession of Dr. Cochran from its first home in the San Fernando valley to the immediate neighborhood of the College of Liberal Arts in Los Angeles.

In the hard times of 1893 the trustees thought it expedient to close the Maclay College until its resources should warrant the continuance of its work. At the session of the Southern California Annual Conference in 1907, on the urgent request of the conference, the decision was made to resume work in theology, and its present dean, Rev. E. A. Healy, D.D., was appointed. The current session, 1908-9, is its second year of new life. Dean Healy came to his work with matured knowledge of the requirements of the pastorate, and with large experience in educational work as superintendent and teacher in school and college, his own scholastic honors being the A.B. and A.M. degrees from Victoria and Toronto Universities respectively, and the Doctorate in Divinity from his Alma Mater.

Associated with him, completing the Faculty of Instruction, are the following, each of whom is eminent and successful in his chosen field:

FACULTY.

- Geo. F. Bovard, A.M., D.D.,**
President of the University.
- Ezra A. Healy, A.M., D.D.,**
Professor of Systematic Theology and Historical Theology.
- James Blackledge, A.M.,**
Professor of Hebrew Language and Literature.
- Eli McClish, D.D.,**
Professor of Christian Evidences.
- James G. Hill, A.M., S.T.B.,**
Professor of English Bible.
- Festus E. Owen, A.M.,**
Professor of Green Language and Literature.
- James Main Dixon, A.M., F.R.S.E., L.H.D.,**
Professor of English Language and Literature.
- Matt. S. Hughes, D.D.,**
Professor of Pastoral Theology.
- Bishop Robt. McIntyre, D.D.,**
Lecturer on Homilistics.
- Geo. B. Smythe, D.D.,**
Lecturer on Christian Missions.

The intimate relation of Maclay College to the College of Liberal Arts is of great advantage to both, appearing in the convenience of location on the same campus, and the interchange of credits where subjects are common to the two colleges.

It is the aim of the College of Theology to do all that is possible to furnish the churches of our constituency with preachers who shall be at once scholarly and evangelical and pastors who shall be apt and successful in their difficult work.

In pursuance of this aim the following courses are arranged, with the specified conditions of admission:

1. **The Degree Course.** A three years' course for students who have obtained the A.B. degree. The completion of this course will entitle the graduate to the degree of Bachelor of Divinity.

THE COURSES

Degree

Classical Course.

Church History.
Practical Theology.
Greek.
Hebrew.
Biblical Introduction.

Diploma

JUNIOR CLASS.

Greek-English Course.

Church History.
Practical Theology.
Greek.
Biblical Introduction.
English Literature and Expression.

Certificate

English Course.

Church History.
Practical Theology.
Biblical Introduction.
English Literature and Expression.
Systematic Theology.

MIDDLE CLASS.

Church History.
Practical Theology.
Systematic Theology.
Greek Testament.
English Exegesis.
English Literature and Expression.

Church History.
Practical Theology.
English Exegesis.
Systematic Theology.
English Literature and Expression.

SENIOR CLASS.

Systematic Theology.
Historical Theology.
Pastoral Theology.
Greek.
Hebrew.
Apologetics.
Sociology.

Systematic Theology.
Practical Theology.
English Exegesis.
English Literature and Expression.
Apologetics.
Sociology.

2. **The Diploma Course.** This is also a three years' course, open to students, who have the equivalent of junior standing in the College of Liberal Arts. The Maclay College Diploma will be granted to graduates in this course.

3. Students will be admitted as specialists to any classes that, in the judgment of the Faculty, they can enter with advantage, and certificates will be given for all subjects satisfactorily taken.

Admission. A license to preach will be a sufficient credential. Those not so qualified may present a certificate from their pastor as to their fitness to study for the Christian ministry, or for other religious work.

EXPLANATORY NOTES.

Old Testament and Hebrew.

Professor James Blackledge.

Related Subjects. The main object of instruction in this department is the securing of a good reading knowledge of the Hebrew text; hence during the first two years of the course special attention is given to oral class-reading exercises—the fundamental principles and rules underlying the Hebrew language—the origin of grammatical forms, with some exegetical study during the second semester of the second year.

A greater part of the first two years is devoted to the study of the text of the Pentateuch. During this time, the student is requested to look up the inscriptions of Israel's neighbors—the Assyrians and Babylonians—in the library, with the view of aiding in the study of the text.

The principal object of our method of instruction is, by constant review, and frequent composition exercises, to make an otherwise dry study, as interesting as possible. During the latter half of the course will be taken up the studies in Messianic prophecy, with more exegetical work; exegetical studies in the minor prophets, and a critical study of the Book of Job. During the last semester of the course there will be grammatical, critical and exegetical studies of selections from the Book of Psalms. During the entire course occasional lectures will be given on the Old Testament and related subjects.

New Testament Exegesis and Interpretation Prof. John G. Hill. This course is designed to furnish the student with an

accurate conception of the contents of the more important books of the New Testament, not only as a whole, but in detailed study of leading passages, doctrinal sections, striking discourses, obscure phrases, and significant words.

The effort is, not to read meanings into the passages considered, but to get the original author's exact viewpoint. This is often a most difficult task and calls for modern scientific methods of application in exegesis. To obtain the exact idea intended by the author, the interpretative principles, methods and rules must be learned and applied. Some knowledge of the Greek language will be helpful. Two hours throughout the year, Tuesday and Thursday (hours to be arranged).

Prerequisite, Bible 1, 2, 3, 4.

PASTORAL THEOLOGY.

Professor Hughes.

Dr. Hughes gives one lecture a week on this important subject, and is attracting, in addition to the regular theological students, many ministers who have been long in the pastoral work. His style is strong and clear and holds one's interest to the last sentence. His range of subjects covers the whole field of the pastor's life and work. The place of Pastoral Theology; the history, theory, and practice of preaching; the call to the ministry; the preparation to be added to nature's qualifications for the work; the history, constitution and development of the church; what the church does for the pastor, and the pastor's obligation to the church; relation of children to the church, and of the pastor to the children; the minister and his brethren; the pastor and the Sunday school; the pastor and the literature of the church; his use of books and libraries; methods and means of worship; pastoral visitation; the institutional church; the minister and social problems, such themes and many others, treated in the trenchant style of Dr. Hughes, comprise a course of living interest and great value. Christian workers and others interested are admitted to these lectures.

NEW TESTAMENT GREEK.

Professor Owen.

Those who have had no previous training in the Greek language will register for course 1 in the College of Liberal Arts.

2. The Gospel according to John will be studied as a basis for master the language of the New Testament. Harper and Weidner's Introductory Greek Method will be used throughout the year. Two hours both semesters; 2:00 Tuesday and Thursday.

3. The Gospel according to Luke; selection from the Acts; Epistle of James, Intensive Grammar and Syntax drill; work derivation and synonyms. Two hours (hours to be arranged).

CHURCH HISTORY.

Dean Healy.

In this subject the work begins with the Life and Times of Christ, and progresses through the Apostolic, Mediaval and Middle ages to Modern times.

The history of doctrine is traced from the beginning; special care is taken with the great movements of the Church, such as the Reformation, the Wesleyan Revival, and the Church in America, including the history of American Methodism. Bishop Hurst's volumes are made a basis, but wide reference is had to standard authors.

SYSTEMATIC THEOLOGY.

Dean Healy.

With the works of Dr. Miley, Professor Sheldon, Chancellor Burwash, and older writers who enter upon the whole field; together with the contributions of specialists on particular topics, students are kept at work in this basal subject through the whole three years.

While modern critics have their hearing, our spirit is conservative, and fidelity to our recognized and tried standards is fostered.

CHRISTIAN EVIDENCES.

Foundations of Faith.

Professor McClish.

This course will take up those phases of thought and facts of life that confront the student of today. The idea of God and the divine immanence; man and the legitimacy of the religious principle in the human constitution; the Bible as a revelation of God's revelation of God's relation to, and purpose

concerning man's life and destiny; the facts of conversion and the history of Christianity as witnesses to the divine origin of the system; and a consideration of the assumptions of modern cults which oppose or offer themselves as substitutes for Christianity.

THE HISTORY OF CHRISTIAN MISSIONS.

Professor McClish.

This course requires two semesters. The first begins with Paul, A. D. 46, and continues to Carey, A. D. 1792. It briefly considers the condition of the world when Paul and Barnabas leave Antioch in the year 46, and studies the missionary spirit that manifested itself to Carey's time under the following agencies: promiscuous, governmental, papal, monastic, mendicant orders, military power, Jesuits, colonization, and denominational. The second semester deals with modern missions, their past, present and promise.

ANGLO SAXON BIBLE.

Professor Dixon.

A rare opportunity is afforded our students in the presentation of a series of lectures on the Anglo-Saxon Gospels, with readings from the text.

Special lectures on Foreign Missions will be delivered, as last year, by Dr. Geo. B. Smythe. His accurate knowledge and wide experience make these addresses not only valuable to our student volunteers, but of vital interest to all students of aggressive Christianity.

TERMS AND EXPENSES.

Tuition in Maclay College is free. A registration fee of \$10.00 a semester is charged, with \$2.00 from men who take training in gymnasium and on the athletic field.

Lectures by men and women of eminence in special fields are given frequently in the College Chapel and are free to all our students.

Three hours in each semester will be allowed in the College of Liberal Arts without charge. For additional subjects, the rates current in that college.

Advantageous terms have been secured with the College of Oratory for a course in Bible and Hymn reading.

The departments of History, Sociology, Biology, and Metaphysics in the College of Liberal Arts are convenient and attractive.

CALENDAR.

Registration Day, October 4th.

Lectures begin October 5th.

Subsequent dates uniform with those of College of Liberal Arts.

Numerous charges in the vicinity of Los Angeles find pastors among our students, and our District Superintendents are glad to make such arrangement where it is mutually satisfactory.

An information and employment bureau is maintained by the University Y. M. C. A., which is very helpful to those who wish to support themselves while in attendance at college.

Number of students enrolled, thirty-seven, besides a class of thirteen in the special study of missions.

Credits are allowed by the Board of Examiners of the Annual Conference for all subjects passed in Maclay College.

For additional information apply to E. A. Healy, Dean, University, Los Angeles, Cal.

The Preparatory School.

CALENDAR 1909-1910.

1909.

Sept. 13	Monday	{	Entrance examinations and registration for the First Semester.
Sept. 14	Tuesday		
Sept. 15	Wednesday		
Nov. 25	Thursday	{	Instruction begins.
Nov. 26	Friday		
Dec. 21	Monday		

1910

		{	Thanksgiving Vacation.
		{	Christmas Vacation.
Jan. 2	Sunday	{	Day of Prayer for Colleges.
Jan. 27	Thursday		
Jan. 28	Friday		
Feb. 3	Wednesday	{	Mid-year Examinations.
Feb. 2	Wednesday		
Feb. 3	Thursday		
Feb. 4	Friday	{	First Semester ends.
Feb. 7	Monday		
Feb. 22	Tuesday		
Mar. 25	Saturday	{	Entrance examinations and registration for the Second Semester.
April 4	Sunday		
June 9	Thursday		
June 14	Tuesday	{	Instruction begins.
June 15	Wednesday		
		{	Washington's Birthday.
		{	Spring Vacation.
		{	Final Examinations.
		{	Graduation Exercises.

GENERAL STATEMENT.

The Preparatory School is maintained in connection with the College of Liberal Arts. All of the instruction in the Preparatory School is under the supervision of the college faculty, thus insuring the best preparation for entrance to college. The students enjoy all the general advantages open to students in the College, including library, lectures, laboratories, religious and social privileges.

While the work of this school is mainly that of preparing students directly for the College, yet without lessening the work in this direction, the authorities realize the importance of giving increased attention to the large number of young people who desire academic instruction, but do not wish to devote the necessary time and means to secure a collegiate education. For

this large and worthy class, the school purposes to provide sufficient facilities, so that in the limited time at their command they may acquire some preparation for their future work.

Requirements for Admission.

Applicants must have finished work equivalent to that required for admission to the high schools. They must show evidence of fitness to begin the work of the classes in the school. Persons who wish to take a partial course, or to select their studies, can enter the preparatory school without a formal examination, and pursue such subjects as they may be prepared to take.

Registration.

The method and regulations in registration are the same as those in the College. (See page 31.)

Absence from Exercises.

The rules and regulations concerning absences from required exercises are the same as in the College (see page 35).

CHAPEL.

The Chapel period is 9:50 to 10:30 Monday, Tuesday, Thursday and Friday of each week. Attendance is required. When the record shows more than nine unexcused absences at mid-semester the registration of the delinquent student is cancelled. Restoration may be secured only on the recommendation of the faculty committee on chapel attendance. Wednesday of each week, at the chapel period, the Young Men's and the Young Women's Christian Associations hold their respective devotional services, to which the students are cordially invited.

Reports.

Reports of standing are sent to the parent or guardian of each student each month. The Faculty desire the co-operation of parents in their efforts to maintain a high grade of scholarship and deportment.

COURSES OF STUDY

The regular courses of study are four in number, any one of which is designed to prepare students to enter the College of Liberal Arts, or institutions of similar standing. A student who has completed one of these courses is admitted to the College without examination.

	A			B			C			D			Electives
	3 English, 2:00. 5 Latin, 10:25 or 1:05.			3 English, 2:00. 5 Latin, 10:25 or 1:05.			3 English, 2:00. 5 Latin, 10:25 or 1:05 or German, 10:25.			3 English, 2:00. 5 Latin, 10:25 or 1:05 or German, 10:25.			Electives
	5 Algebra, 11:20. 2 Expression, 2:00. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			5 Algebra, 11:20. 2 Expression, 2:00. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			5 Algebra, 11:20. 2 Expression, 2:00. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			5 Algebra, 11:20. 2 Expression, 2:00. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			
	5 English, 1:05. 5 Latin, 8:55. 5 Anc. Hist., 2:00. 4 Botany, Recit., 11:20, M., W. Lab. 10:25, M., W., 10:25-11:20, T., Th. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			5 English, 1:05. 5 Latin, 8:55. 5 Anc. Hist., 2:00. 4 Botany, Recit., 11:20, M., W. Lab. 10:25, M., W., 10:25-11:20, T., Th. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			5 English, 1:05. 5 Latin, 8:55 or German, 11:20. 4 Zoology, Recit., 2:00, M., W. Lab. 2:50 M., W., 2:00-2:55 T., Th. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			5 English, 1:05. 5 German, 11:20. 5 Algebra, 10:25. 5 Drawing, 8:55-12:10 M., W., 1:05-3:40 M., T., W. 2 Gym.—Boys, 2:00, 2:55, 3:50. Girls, 10:25, 11:20, 1:05.			Electives
	5 Greek, 11:20. 5 Latin, 2:00.			5 English, 8:00. 5 Latin, 2:00.			5 Elective. 5 Chemistry, Recit. 11:20 T., Th., Fr., Lab. 1:05-2:55, W., Th. 5 Plane Geom., 8:55. 5 Amer. Hist., 10:25.			5 Elective. 5 Chemistry, Recit. 11:20 T., Th., Fr., Lab. 1:05-2:55, W., Th. 5 Plane Geom., 8:55. 5 Amer. Hist., 10:25.			
	5 Plane Geom., 8:55. 5 Amer. Hist., 10:25.			5 Plane Geom., 8:55. 5 Amer. Hist., 10:25.			5 Elective. 5 Botany, Recit., 11:20 M., W., Lab. 10:25 M., W., 10:25-11:20 T., Th. 5 Physics, Recit., 8:55 M., T., W., Lab. 1:05-3:40 Th., F. 5 Elective.			5 Mathematics A., 1:05 M., Tu., W., Th., 10:25 F. 5 Drawing, 8:55-12:10 M., W., 1:05-3:40 M., T., W. 5 Physics, Recit., 8:55 M., T., W., Lab. 1:05-3:40 Th., F. 5 Elective.			*Mathematics A. Mathematics A. Physics. Botany. Chemistry Spanish. Algebra. Zooology. Anc. Hist.
	5 Greek, 10:25. 5 Latin, 8:00. 5 Physics, Recit., 8:55 M., T., W., Lab. 1:05-3:40 Th., F., or Chemistry, Recit., 11:20 T., Th., F., Lab. 1:05-2:55, W., Th. 5 Elective.			5 Latin, 8:00. 5 Physics, Recit., 8:55 M., T., W., Lab. 1:05-3:40 Th., F., or Chemistry, Recit., 11:20 T., Th., F., Lab. 1:05-2:55, W., Th. 5 Elective.			5 Elective. 4 Botany, Recit., 11:20 M., W., Lab. 10:25 M., W., 10:25-11:20 T., Th. 5 Physics, Recit., 8:55 M., T., W., Lab. 1:05-3:40 Th., F. 5 Elective.			5 Mathematics A., 1:05 M., Tu., W., Th., 10:25 F. 5 Drawing, 8:55-12:10 M., W., 1:05-3:40 M., T., W. 5 Physics, Recit., 8:55 M., T., W., Lab. 1:05-3:40 Th., F. 5 Elective.			*Mathematics A. Mathematics A. Physics. Botany. Chemistry Spanish. Algebra. Zooology. Anc. Hist.

NOTE.—The figures denote the number of class recitations (or their equivalent in laboratory work and drawing per week).
 * Mathematics A includes Trigonometry, Solid Geometry, and a review of Algebra.
 † Students who have received credit for two years of German and who intend to take up German 2 in their freshman year in College must review the second semester of German 1 (College) in their last semester in the preparatory school.

Graduation and Diplomas.

The Preparatory School has a special evening set aside in commencement week for its graduation exercises.

Each student who completes one of the regular courses of study will be granted a diploma.

Literary Societies.

The Webster Literary Society is composed of young men who meet each week for training in public speaking.

The Willard and Annesley Literary Societies are composed of young women who meet each week for training in literary work.

DEPARTMENT OF INSTRUCTION.

ENGLISH.

First Year.

First Semester.

1. **Expression.** Two hours a week.

This course is designed to make the student more proficient in common reading, and to enable him not only to interpret clearly the literary thought, but to express it as well.

Much stress is laid upon English Phonation. Perhaps there is no subject in education that is of so much importance, and yet so deeply neglected. "The manner in which one speaks his mother tongue is looked upon as showing more clearly than any other one thing what his culture is, and what his associations have been." Selections from the best literature will be used in the study of the principles of vocal expression. Sight reading will be one of the features of the work.

2. **Review of Technical Grammar, with practice in Writing Compositions.** Three hours a week.

Second Semester.

1. **Expression** (see above). Two hours a week.
2. **Rhetoric and Themes.** Two hours a week.
3. **Classics.** One hour a week.

A. Orving: Selections from Sketch Book.

B. Hawthorne: Tales of the White Hills.

C. Lowell: Vision of Sir Launfal.

**Second Year.
First Semester.**

1. **Rhetoric:** Gardiner, Kittredge and Arnold. One hour a week.
2. **Themes:** Special attention to rhetorical structure. One hour a week.
3. **Classics.** Three hours a week.
 - A. Scott: Lady of the Last Minstrel.
 - B. De Coverley Papers.
 - Coleridge: Ancient Mariner.

Second Semester.

1. **Rhetoric:** Gardiner, Kittredge and Arnold. One hour a week.
2. **Themes.** One hour a week.
3. **Classics.** Three hours a week.
 - A. George Eliot: Silas Marner.
 - B. Scott: Ivanhoe.
 - C. Shakespeare: Merchant of Venice.

Third Year.

First Semester.

1. **Rhetoric:** Blaisdell. One hour a week.
2. **Themes:** Exposition and Description. One hour a week.
3. **Classics.** Three hours a week.
 - A. Carlyle: Essay on Burns.
 - B. Burns: Selected Poems.
 - C. Tennyson: Idylls of the King.
 - D. Shakespeare: Midsummer Night's Dream.

Second Semester.

1. **Rhetoric:** Blaisdell. One hour a week.
2. **Themes:** Narration and Description. One hour a week.
3. **Classics.**
 - A. Macauley: Essay on Warren Hastings.
 - B. Lincoln's Inaugurals and Webster's Gettysburg Speech.
 - C. Milton's Minor Poems.
 - D. Shakespeare: Julius Caesar.

Fourth Year.**First Semester.**

1. **Painter's Elementary Guide to Criticism.** One hour a week.
2. **Themes: Exposition and Argument.** One hour a week.
3. **Gayley and Young's Principles and Progress of English Poetry.** Three hour sa week.
 - A. Outline-History of English Literature.
 - B. Chaucer, Gray, Wordsworth, Shelley, Keats, Byron, and Browning.

Second Semester.

1. **Themes: Exposition and Argument.** One hour a week.
2. **Classics.** Four hours a week.
 - A. Burke: Speech on Conciliation.
 - B. Webster-Hayne Debate.
 - C. Poe: Poems and Tales.
 - D. Shakespeare: Macbeth.

GERMAN.**First Year.**

Collar's Beginning German. This text books provides the material for the first year's course. It comprises studies in pronunciation, grammar, drill on the forms, elementary conversation, and various anecdotes and poems for translation and memorizing. Further interesting reading and material for conversation and composition is taken from Guerber's Maerchen und Erzaehlungen.

Second Year.

The grammar is finished and reviewed. Various modern German stories, poems, and plays are read and reproduced, both orally and in the form of written exercises.

The class work is conducted mainly in German, and the ability to read accurately and fluently and express simple thoughts in spoken and written German is required.

GREEK.**First Year.**

White's First Lessons is used throughout the year. The aim of the first year's work is thoroughly to acquaint the pupil with forms.

Second Year.

During this year the first four books of Xenophon's *Anabasis* are translated. Daily practice is given in sight reading. Pearson's *Greek Prose Composition* is used throughout the year. The work is made the basis of a thorough drill in grammar. Goodwin's *Greek Grammar* is used for reference.

Third Year.

Books I-IV of Homer's *Iliad* are read and translated. Practice in sight reading is given daily from Books V and VI. Scansion, forms, syntax and mythology are given special attention. Pearson's *Greek Prose Composition* is used throughout the year.

Note. Beginning classes in Greek are carried on in the College Department in which the work outlined above is covered in two years. Preparatory students who show special ability and strength in this subject are admitted to these College classes and are advised to avail themselves of this privilege. The same credit (three units) is given to Preparatory students in these classes as is granted in the Preparatory Department for the three years work.

HISTORY.

The work in History is carried on by means of text-books, lectures, essays, and library work. Constant reference is made to the atlas and dictionary, maps are drawn, essays required, and the topical method is used for special subjects. Full and carefully kept note books are required in all the subjects in this department.

1. **Ancient History.** Greek and Roman History. **One year.**
2. **American History and Civics.** **One year.**

LATIN.

First Year.

The aim of the first year's work is to attain an accurate pronunciation, a thorough knowledge of all the regular forms of declension and conjugation, together with the simpler principles of syntax, and vocabulary of about eight hundred common words.

Second Year.

Four books of Caesar's Gallic War are read. Regular forms are reviewed and essential irregular forms are learned in a systematic study of Latin grammar. There is regular practice in oral or written translation into Latin of exercises based on the text read, and slight translation is an important part of the year's work. Some attention is given to subject matter.

Third Year.

In the reading and interpretation of six of Cicero's orations the time is equally divided between language and subject matter. The grammar is thoroughly reviewed in regular oral or written composition based on the text. An attempt is made to gain a definite knowledge of Cicero and his age, of the Roman government in Cicero's time, and of the city of Rome. The simpler letters are read at sight.

Fourth Year.

The first six books of Vergil's Aeneid are read and interpreted. A special effort is made to approach the work as poetry. Prosody, figures of speech, mythological references, and poetical constructions are studied. Metrical reading is insisted upon. An idea of the Aeneid as a whole is gained by the sight reading of portions of the last six books. Two days each week are occupied during the first semester in a review of syntax and in prose composition.

MATHEMATICS.

The aim of the course in mathematics is to cultivate the habits of independent reasoning, of accuracy of work, of precision and clearness in the statement of conclusions and the reason upon which they depend. First in importance is the intellectual training that makes the mind a ready and keen tool; second, the orderly acquisition of facts. Absolute thoroughness and work that increases in amount and difficulty with the student's increasing capacity, are required. The student's efficiency is measured by his power to do. Throughout the course written reviews and test examinations are frequent.

Algebra, First Year.

Wentworth's New School Algebra, through Quadratics, Special emphasis is placed on factoring and on the solution of equations. The object of the study is not only to acquire a knowledge of the subjects required for admission to the leading universities, but to secure the mental discipline for its own sake, and such a drill as looks to the use of the algebraic method in future study.

Algebra, Second Year.

Beman and Smith's Elements of Algebra. A review of the first year's work is taken, and the text book is completed. This work is supplemented by lectures on the theory of algebra, and these form a most important part of the course.

Algebra, Third Year.

Fisher and Schwatt's Higher Algebra, two hour a week. This course is given as an elective for students of marked mathematical ability, and is open only to those who have taken Course 2.

Geometry.

1. Plane Geometry. One year. Careful attention is given to constructions, clear and logical expression, and above all to the attainment of the power to do original work in geometry. The exercises of the text-book are supplemented by constant suggestions by the teacher for investigations.

2. Solid Geometry, four hours a week, during the second semester.

Trigonometry.

Plane Trigonometry, and a brief study of Logarithms and the solution of the Right Spherical Triangle, four hours a week, during the first semester.

DRAWING.**First Year.**

Ten hours a week.

Freehand Drawing: First Semester—Elementary line work from geometric solids and simple natural objects.

Second Semester, advanced line work in pencil from casts and still life, flat wash in black and color.

Second Year.

Ten hours a week.

Instrumental Drawing: First Semester—Linear drawing, simple geometric problems, lettering.

Second Semester, advanced geometric drawing, conic sections, projections.

PHYSICAL TRAINING.**First Year.**

Systematic class work. This consists of vigorous drill with dumb bells, clubs, bar bells, etc., for the men; for the women, general development exercises in walking and running, simple, free movements, recreative games and outdoor sports. Required of all first year students. Four hours a week.

Second Year.

Progressive graded work on various pieces of gymnastic apparatus, mat work and gymnastic games for the men; more difficult free movements, relaxing exercises, mat work, walking, drill, and dumb bells and games in the open air for the women. Required of all second year students. Four hours a week.

SCIENCE.**Biology.**

Botany and Zoology, each given as a full course of eight hours per week, for one year. The work in each is a combination of laboratory study, lectures and recitations, with a careful notebook record of the work actually done by the student under the direction of the teacher. The ground covered and the methods employed are such as fully meet the requirements of any college to which the student might desire to go.

Chemistry.

The subject of Chemistry continues throughout the year, and includes all the general principles theoretical and practical of inorganic chemistry, such as given in McPherson and Henderson, *Elementary Study of Chemistry*. Recitations and individual laboratory work occupy not fewer than seven hours per week. A special effort is made throughout to develop the scientific habit of thought and to lead the student to observe

the chemical changes constantly taking place. In the laboratory each student is furnished with a desk and all necessary reagents and apparatus, and is required to keep a complete record of the work done during the year.

A laboratory fee of eight dollars per semester, and an additional deposit of five dollars is required. The loss by damage or destruction of apparatus will be deducted from the deposit of five dollars, and the balance refunded at the close of the semester.

Physics.

This course is designed to give the student a familiarity with the principal facts, laws and theories of Physics. This is accomplished by the careful study of a text and definite laboratory work for one year.

GENERAL INFORMATION.

For general information concerning location of school, religious privileges, library and reading room, the museum and the science laboratories, athletics and the gymnasium, see pages 42-51.

PREPARATORY SCHOOL.

Tuition and Fees.

Tuition, per semester, in advance	\$35.00
Tuition per year (two semesters) if paid in advance	67.00
Tuition, for six to ten hours, per semester	25.00
Tuition, for five hours, or less, per semester	17.00
(Hours as used above means so many hours per week.)	
Gymnasium and Physical Education (including admission to all inter-class games), required of all students	2.00
Gymnasium and Physical Education taken without other studies, per semester	8.00
Registration fee included in above, but not subject to rebate	5.00
Diploma fee	5.00
Laboratory fees—	
Chemistry	8.00
Physics	4.00
Botany	4.00
Zoology	4.00

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage is refunded at the end of the year.

Students who are recommended by a quarterly conference as candidates for the ministry; young women who are recommended for the work of Deaconesses by a quarterly conference and the Conference Board of Deaconesses; and the children of ministers in the regular work of any evangelical denomination, may have their tuition reduced to one-half the regular rate.

A discount of ten per cent of the tuition will be allowed when two or more students enter from the same family.

No rebate will be allowed for less than one-half a semester's enforced absence.

The Declamation Prize.

A prize of ten dollars, offered to the student who wins in contest in declamation, was awarded in 1908 to Hattie E. Foster.

Rooms and Board.

Students are required to submit to the Faculty a statement of the places where they desire to room and board, and must secure their consent in each case.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to school life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the school for want of money.

For further information address

President George F. Bovard,
Los Angeles, California.

Catalogue of Students.

THE COLLEGE OF LIBERAL ARTS.

Name	Major	Hours	Home Address
Adkinson, Kathryn Wiley.....		12.....	Los Angeles
Allan, Roy Folger.....		15.....	Los Angeles
Allen, Anais Julia.....	English...	45.....	Los Angeles
Allen, Charles Lewis, Jr.....		13.....	Los Angeles
Allen, Florence Elizabeth.....	English...	68.....	Los Angeles
Anable, Mrs. Sarah Richard....	English.....		Los Angeles
Anderson, Rembert Coddington.....			Los Angeles
Ashcraft, Norman Blaine.....	History...	27.....	Ashland, Ore.
Asher, Katherine Lucille.....	Latin.....	38.....	El Monte
Atlee, Marguerite Leslie.....		6.....	Ft. Madison, Ia.
Avakian, Arsen Harootune.....	Chem.	100.....	Los Angeles
Back, Welcome Lawrence.....		17.....	Ocean Park
Bailey, LeRoy Harrison.....			Los Angeles
Baker, Donald McCord.....	C. Eng.	21.....	Los Angeles
Ball, Adelaide Leffler.....	History...	99.....	Downey
Ballard, John Hudson	Phil.....	107.....	Los Angeles
Bancroft, Roy Francis	Drawing.....		Tropico
Barnhart, Percy Spencer.....	Zoology...	19.....	Los Angeles
Baxter, Kathryne Gladys.....	Latin.....	15.....	Compton
Beal, William Wilson.....	E. Eng....	77.....	Los Angeles
Behymer, Elsie Olive.....		8.....	Los Angeles
Bell, Edna Elcedena.....			Los Angeles
Benson, Martha Faye.....			Los Angeles
Berryman, John R.			Los Angeles
Berryman, Olive Perkins.....		36.....	Los Angeles
Bien, Beulah Vernon.....		38.....	Los Angeles
Bishop, Harold A.			Toledo, Ohio
Blackburn, Porter Conrad.....	English...	58.....	Los Angeles
Blackman, Merl A.	Chem.....	43.....	Los Angeles
Blood, Charles Newman.....	C. Eng....	11.....	Los Angeles
Boardman, Lees M.	E. Eng....	11.....	Santa Monica
Boller, Gordon		60.....	Los Angeles
Boller, Stanley		17.....	Los Angeles

Name	Major	Hours	Home Address
Bostwick, Florence Fern.....	English...	43.....	Los Angeles
Bouton, Mrs. Elsa J.			Los Angeles
Bovard, Edna Georgia.....		15.....	Los Angeles
Bowers, Chester Herbert.....	Zoology...	103.....	Los Angeles
Bowers, Evelyn Cummings.....		15.....	Los Angeles
Bowser, Charles Arthur.....	Zoology...	31.....	Los Angeles
Brallier, Mary Reber	Latin.....		Los Angeles
Bridges, Ruth Gladys.....		16.....	Los Angeles
Bridges, Sadie Ethel.....	Latin.....	79.....	Los Angeles
Brim, Minnie		5.....	Los Angeles
Brode, Alverda June.....	History...	40.....	Los Angeles
Brown, Edgar Kapp.....	English...	37.....	Los Angeles
Brown, Frederic Raymond.....	Physies...	69.....	Los Angeles
Brown, James Lorin.....	English...	50.....	Los Angeles
Brown, Maggie Jane Eiffel....	English...	50.....	Lankershim
Bruce, Ray William.....	History...	65.....	Hemet
Bruckman, Edith Louise.....	French ...	107.....	Los Angeles
Buchanan, Genevieve		55.....	Los Angeles
Buffington, Charles Stewart....	Chem.....	89.....	Woody
Burek, Stanislaus Leo.....	Chem.....	104.....	Wausau, Wis.
Burk, Earl Elihu.....	Zoology...	39.....	Long Beach
Burleson, Frank Edward.....	E. Eng.....		Los Angeles
Burmeister, Emma Minnie.....	Latin.....	91.....	Los Angeles
Burmeister, Laura Elise.....		18.....	Los Angeles
Burris, Mrs. Lillian Victoria.....		12.....	Huntington Park
Burton, Vincent Staub.....	C. Eng.....		Glendale
Bushnell, Lillian May.....			Hermon
Butler, Joseph Henry.....	History...	104.....	Downey
Butters, Laurretta Marguerite...	English...	57.....	Long Beach
Byrer, Clarence W.		33.....	Los Angeles
Cain, Morris Allen.....	History...	78.....	Santa Ana
Carlson, Hilma Sophie.....	English.....		Los Angeles
Carrell, Frank Robert.....	Econ.....	35.....	Gardena
Carrell, Leland Joy.....		14.....	Gardena
Cates, Charles Barker.....			Los Angeles
Cechin, Mae Margaret.....		10.....	Corona
Chadwick, Nina May.....	English...	59	Los Angeles
Chamlee, Nettie Emeline.....	History...	47.....	Los Angeles
Chelgrene, Silva Elisa Dora....	English...	101.....	Los Angeles

Name	Major	Hours	Home Address
Chrisman, Chester Russell.....		2.....	Los Angeles
Christopher, Edward Linn.....	M. Eng...	38.....	Los Angeles
Clardy, Grady	M. Eng...	16.....	Santa Ana
Clark, Ralph Waldo.....	Math.....	107.....	Los Angeles
Clark, Stephen Hart.....	Math.....	107.....	Los Angeles
Clark, Jennie Carlie.....	History.....		Los Angeles
Clay, Mrs. Jennie Troxel.....		37.....	Los Angeles
Clay, Thomas Lyman.....	Phil.....	47.....	Los Angeles
Close, Katherine Margaret.....		15.....	Los Angeles
Cocks, Edna Agnes.....		29.....	Los Angeles
Cogswell, Frederick Allen.....	Physics...	80.....	El Monte
Coller, Helen Amanda.....		11.....	Los Angeles
Collison, John Clyde.....	Latin.....	79.....	Los Angeles
Coloneus, Grover Cleveland.....	E. Eng...	40.....	Los Angeles
Cone, Ruby Vernell.....	History...	16.....	Dinuba
Conlee, Florence		5.....	Los Angeles
Cook, Clarence Westgate.....	E. Eng...	51.....	Los Angeles
Cooper, Judge		10.....	Corona
Cooper, Leslie Judson.....		40.....	South Pasadena
Cooper, Renel Fenimore.....		7.....	Corona
Corbin, Anita Elisa.....		8.....	Los Angeles
Corbin, John Walker.....	History...	33.....	Los Angeles
Cowan, James Ray.....	Zoology...	110.....	Los Angeles
Coyne, Robert John.....		10.....	Los Angeles
Crabb, Alice	Latin.....	50.....	Los Angeles
Crall, David Edwin.....	History...	42.....	Los Angeles
Crandall, Norman	Econ.....	30.....	Los Angeles
Cronemiller, Flora May.....		5.....	Los Angeles
Crook, Frank Peter.....			Whittier
Crooker, Leon James.....	Econ.....	62.....	Clearwater
Crossman, Ralph	C. Eng...	16.....	Los Angeles
Cushman, Clara Elizabeth.....	German...	102.....	Los Angeles
Cynn, Hugh Hennngwo.....		27.....	Los Angeles
Davidson, Joseph George.....	Chem.....	18.....	Long Beach
Davidson, Harold Edwin.....	E. Eng...	93.....	Alhambra
Davidson, Jennie I.		15.....	Los Angeles
Davidson, Mildred Elizabeth....	English...	71.....	Los Angeles
Dawson, Maud Ethel.....		32.....	Los Angeles
Dayman, Evelyn Laura.....	English...	19.....	Long Beach

Name	Major	Hours	Home Address
Dell, Hazel	English...	113.....	Los Angeles
Dennen, Ruth Mildred.....	English...	8+....	Los Angeles
Dick, Samuel Finley.....		42.....	Glendale
Donahue, Marie Aloysius.....	English...	20.....	Los Angeles
Dority, Milton Henry.....	History...	12..	Park City, Utah
Doud, Carl E.			Los Angeles
Dowds, Roy Wilson.....		31.....	Los Angeles
Downs, Alfred Jonathan.....			Los Angeles
Draper, Ella Martin.....	Latin.....	46.....	Ontario
Ebihara, Shichiro	Phil.....	112.....	Japan
Ellingson, Alma Gladys.....	English...	15.....	Los Angeles
Ellingson, Jennie Margaret....	English...	46...	Phoenix, Ariz.
Ellington, Frederic Merton....	E. Eng....	9.....	El Monte
Elliott, Harry Charles.....	History...	17.....	Fullerton
Ensley, Oliver P.	History...	94.....	Ontario
Evrst, Charles Emer.....	Chem.....	3.....	Los Angeles
Fallas, Roy Edwin.....	Zoology...	43.....	Los Angeles
Fambrough, Mrs. S. B.		4..	Longview, Tex.
Faries, David Reid.....			Los Angeles
Farrington, Mabel Winnifred...	Latin.....	23.....	El Monte
Felker, Anna Mary.....	Math.....	5.....	Pasadena
Ferguson, Catherine Louise.....		15.....	Los Angeles
Ferguson, Maude Mary.....	Econ.....	47.....	Los Angeles
Fisher, Rachael Alberta.....		12.....	Los Angeles
Fitch, Frank Brewer.....	Zoology...	110.....	Los Angeles
Fletcher, Katheryn	Math.....		East Highlands
Franklin, Austin Wilson.....	E. Eng.....		Los Angeles
Fraser, Christine Rettie.....		9.....	Norwalk
Frazier, Paul Venard.....		13.....	Long Beach
Fredenburg, Mary Pauline.....		11.....	Long Beach
Galliher, Pearl Lowena.....			Los Angeles
Gardner, Vera	Zoology...	100.....	Los Angeles
Gates, Austin Bryant.....	E. Eng....	81.....	Alhambra
Gay, Leslie F. Jr.	History...	113.....	Los Angeles
Geller, Roscoe Glenn.....		16.....	Toledo, Ohio
Gholz, Walter Irwin.....	Math.....	51.....	Pasadena
Gibbs, Robert Adams.....			Los Angeles

A. B. University of Southern California.

Gilman, Ethel Susan.....History... 16..... Banning

Name	Major	Hours	Home Address
Glaspey, Rexford Mason.....	E. Eng....	60.....	Los Angeles
Goodall, Samuel Erle.....		19.....	Chatsworth
Goode, W. H. C. Jr.		12.....	Sidney, Ohio
Goodenow, Harold Wheelock.....		7.....	Los Angeles
Goodhue, Helen		15.....	Hemet
Goodsell, Joy G.	E. Eng....	15.....	Tropico
Gordon, Howard Elmore.....			Santa Ana
Gower, Harrison Preston.....	C. Eng....	18.....	Hollywood
Gower, John T.	C. Eng....	16.....	Hollywood
Grace, Charles Stewart	C. Eng....	27.....	Rivera
Graettinger, Rupert Fred.....		15.....	Ontario
Gray, Jessie Mary.....	English.....		Whittier
Green, Arthur William.....	History.....		Los Angeles
Green, Florence L.....			West Union, Ia.
Green, Gladys	English.....		West Union, Ia.
Grow, Jessie Avery.....	History... 52.....		Los Angeles
Guild, Ellis Darwin.....	History... 81.....		San Diego
Hackett, Harold Arthur.....		14..	Flagstaff, Ariz.
Hagerman, Alfred			Los Angeles
Haigler, Charles Alvin.....	Math.... 53.....		Tempe, Ariz.
Haley, John Otis.....			Colegrove
Halfpenny, Ida Belle.....		48.....	Ontario
Halfpenny, Mary Lillian.....	English... 102.....		Ontario
Hall, Walter Alexis.....	C. Eng.... 40.....		Santa Ana
Hollan, Margaret Frances.....			Escondido
Halverson, Inga			Los Angeles
Hamer, Alvin Charles.....	Zoology.....		Los Angeles
Hamilton, Eleanor Frances.....	Latin.... 12.....		Los Angeles
Hampton, Lorenzo Arnie.....	Chem.... 41.....		Fullerton
Hanna, Tacie May.....	English... 67.....		Colton
Hansen, Lulu Lindley.....	English... 27.....		Los Angeles
Hassheider, J. Harry.....		11.....	Los Angeles
Hatch, Lee	Latin.....		Los Angeles
Hatch, William	C. Eng.....		Whittier
Hatcher, Mabel Adrienne.....	Spanish... 46.....		San Jacinto
Haydock, Earl Henry.....	History... 48.....		Tulare
Hawk, Helen Marie.....	Botany ... 119.....		Los Angeles
Heacock, Helen Gertrude.....		15.....	Springfield, Neb.
Healy, Lulu May.....	English... 90.....		Los Angeles

Name	Major	Hours	Home Address
Henderson, Randall Thomas.....		45	Fort Morgan, Col.
Hidden, Carrie Maybelle.....	History...	83.....	Los Angeles
Hill, Joheph Tyler.....	Phil.....	19.....	Los Angeles

A. B. University of Virginia.

Hitt, Eleanor	English...	42.....	Los Angeles
Hoashi, Riichiro		35.....	Los Angeles
Hogan, Ethel Josephine.....	Econ.....		Los Angeles
Hogan, Nelson Stary.....	M. Eng...	10.....	Los Angeles
Horton, Mark McKendree.....	English...	73.....	Los Angeles
Howe, John Paul.....	Soc.....	54.....	Los Angeles
Hubbard, Danna Hawthorne.....			Los Angeles
Hughes, Winfield Scott.....			Los Angeles
Humphrey, Helen Rosebrook....	English...	16.....	Los Angeles
Hurst, Florence Louise.....	English...	41.....	Los Angeles
Huston, Luther Allison.....		12.	Idaho Falls, Ida.
Ickes, Sydney Frank.....		16.....	Los Angeles
Iliff, Ruth Margaret.....	German...	38.....	Whittier
Ito, Heijiro			Los Angeles
Jackson, Marie Herbert.....	History...	48.....	Los Angeles
Jackson, Wayne Bassett.....	Chem.....	57.....	Hollywood
Jacobs, Mamie Blanche.....	English...	22.....	So. Pasadena
James, Everett Rockwell.....	Econ.....	50.....	Hollywood
Jeffers, John F. Robinson.....	English...	13.....	Los Angeles

A. B. Occidental College.

Jessup, Walter Edgar.....	C. Eng...	65.....	Los Angeles
Johnston, Inez Aline.....		8.....	Los Angeles
Johnson, Nicolina		2.....	Los Angeles
Jones, Clarence Edward.....	Chem.....	107.....	Los Angeles
Jones, Alanson Halden.....			Burlington, Vt.

A. B. Univ. of Vermont; M. D. University of So. California.

Joslin, Phoebe Ione.....	English...	72.....	Los Angeles
Keeney, Florence Alice L.	English...	16.....	Jordon, N. Y.
Kersey, Vierling	C. Eng...	21.....	Los Angeles
Kittle, Walter F.	Zoology...	25.	Huntington Park
Koebig, Kurt			Los Angeles
Koebig, Walter C.	Zoology...	118.....	Los Angeles
Kuhnle, Carl Herman.....			Anaheim
Kuster, Mrs. Edward G.	Phil.....		Los Angeles

A. B. University of Southern California.

Name	Major	Hours	Home Address
KuyKendall, Alfred	History.....		Los Angeles
LaClair, Olive Rebekah.....	French ...	17.....	Long Beach
Lamberson, Norman V.	Zoology...	5.....	Salem, Ore.
Landreth, Lillian Maudee.....	History...	100.....	Los Angeles
Langheldt, Theresa Loraine.....		34...	Laramie, Wyo.
Langley, Dana Albert.....		10.....	Pasadena
Lawrence, Arthur Douglas.....		16.....	Los Angeles
Layne, Newton Mead.....	English...	107.....	San Diego
Lennox, Howard Murray.....		15.....	Glendale
Lepper, Orlando Edmund.....		8+...	Los Angeles
Locke, Ruth Wood.....		18.....	Los Angeles
Loly, Kathleen Dorothy.....		15.....	Los Angeles
Longhead, Elizabeth E.			Los Angeles
Luxton, Wilber Frederick.....	C. Eng....	6.....	Pasadena
Macready, Harry A.	Econ.....	7.....	Los Angeles
Malcom, John Sheldon.....		17.....	Long Beach
Mallory, Gertrude	English...	92.....	Los Angeles
Manatt, Hazel Morgan.....	French ...	49.....	Los Angeles
Martin, Leonard Camburn.....			Webster Groves, Mo.
Martin, Paul Erskine.....		16..	Deadwood, S. D.
McAleer, Charles T.		8.....	Los Angeles
McClellan, Leslie Newman.....	E. Eng....	43.....	Riverside
McClure, Marion			Los Angeles
McCorkle, Annie Rowland.....		15.....	Los Angeles
McCray, Aaron Calvin.....		3.....	Los Angeles
McCurtain, Frank	E. Eng.....		Salt Lake, Utah
McEndree, Fay Nina.....	German...	50.....	Los Angeles
McEuen, William Wilson.....	Math.....	15.....	Riverside
McMillan, Marie Merrill.....			Gardena
McNeil, Diana Bralah.....	History...	108..	Palmas, Africa
McSweeney, Nellie			Los Angeles
McWhirter, Louis Bransford....	Chem.....	16.....	Los Angeles
Mead, Ruth		3.....	Pierre, S. D.
Mealey, Roy Everett.....	History...	111.....	Los Angeles
Mee, Thomas Henry.....	History...	120.....	St. Helena
Metcalf, Edward Newcomb.....		18.....	Los Angeles
Miller, Robert Patchen.....	M. Eng....	46.....	Los Angeles
Mitchell, Harry		13.....	Ontario
Montague, Helen		14.....	Los Angeles

Name	Major	Hours	Home Address
Monteleone, Joseph	Zoology	17	Los Angeles
Monteleone, Stephen			Downey
Moody, Clarence L.	E. Eng.		Los Angeles
Moody, Egbert Earl	Zoology	15	Ontario
Moore, Clark Alphonso	History	41	Whittier
Morgan, Ralph Stoneberger	M. Eng.	11	Los Angeles
Morlan, Rae Belle		13	Los Angeles
Morse, Edward Peck		18	Colorado Springs
Moses, Marian Tytherleigh		5	Los Angeles
Mowers, Beatrice Mary		13	Salt Lake, Utah
Mulock, Kate Gray		23	Alhambra
Munn, Helena Beatrice		13+	Ann Arbor, Mich.
Munson, Arthur Case		26	Los Angeles
Murray, Guy Forrest	Chem.	13	Chino
Murray, Hamilton	English	40	San Gabriel
Myers, Edith Marie Marshall		14	Los Angeles
Myrick, Lydia	English	97	Sandpoint, Idaho
Nazareth, Pere Gaac Peter	Chem.	3	Los Angeles
Nichols, Ross Martin	Econ.		El Monte
Nigg, Rose Annetta	German	18	Covina
Neer, Ethel Christine	Latin		Los Angeles
Neiswender, Chester Bernard	Chem.		Los Angeles
Nemechek, Rudolph Joseph	C. Eng.	18	Oklahoma, Okla.
Newkirk, William Bently	Chem.	70	Los Angeles
Newmire, Earl Stewart			Los Angeles
Noble, Carrie M.	History	73	Los Angeles
Nuffer, Grace Amelia	English	44	Lindsay
Oakley, Elizabeth Mary	English	2	El Monte
Obarr, Richard Halsel	English	42	Santa Ana
Olden, Charles Stevens			Los Angeles
Osborn, Preston Emerson	Zoology	10+	Whittier
Oswald, Christian	History	67	Los Angeles
Oyuki, Masanosuke			Los Angeles
Palmer, Bertha Louise	Math.	47	Compton
Palmer, Edward Augustus			Montville Conn.
Parish, Grace		52+	Clarinda, Iowa
Parks, Elizabeth Florence		15	Los Angeles
Parmelee, Florence		45	So. Pasadena
Parmenter, Charles Leroy	Zoolozy	76	Los Angeles

Name	Major	Hours	Home Address
Pasko, Ruth Matelma.....	English...	7.....	Ocean Park
Patterson, Clova Floyd.....		42.....	..Parlier
Paulin, Harold David.....	Zoology...	45.....	Brentwood Park
Paxton, Percival Curtis.....	Zoology...	15.....	Riverside
Phillips, Harry Francis.....	Math.....	6.....	San Pedro
Pitman, Ruth Else.....			National City
Pitner, Helen			Los Angeles
Powell, Mary Irene.....		15....	San Fernando
Prather, Wilbur William.....	C. Eng....	12.....	Los Angeles
Price, Edward Haynes.....	Phil.....	110....	Los Angeles
Prince, Claude Raymond.....		17.....	Los Angeles
Rafferty, Thomas Grover.....	C. Eng....	10.....	Santa Paula
Ralston, Glancy Sherman.....			Los Angeles
Reberger, William	Phil.....	83.....	Watts
Reed, Leslie James.....	History...	131.....	Hermon
Reed, Wallace Allison.....		42.....	Covina
Reser, Raymond Lawerena.....	C. Eng....		Alhambra
Rice, Nettie Belle.....			Santa Monica
Richardson, Frank Robert.....	Econ.....	49.....	Santa Paula
Richardson, Grant	Econ.....	31.....	Santa Paula
Riche, Mansel Joseph.....	Chem.....	58....	Marksville, La.
Rickard, Ernest Woodward.....	C. Eng....	72.....	Hemet
Riley, Allan Furgeson.....		6....	Garden Grove
Ritchey, Mattie J.	Latin.....	120.....	Santa Ana
Rivers, Lilian Frances.....	English...	11.....	Los Angeles
Roberts, Charles Wesley.....	English...	78.....	San Miguel
Roberts, David Berwyn.....			Los Angeles
Robertson, Blanche Louise.....	English...	62.....	Ontario
Robinson, Flora Humason.....	English...	79.....	Riverside
Robinson, Frank Willard.....		14.....	Long Beach
Robinson, Ralph Leonard.....	E. Eng....	44.....	Anaheim
Rogers, John	M. Eng....	30.....	Los Angeles
Romig, Edith May.....	English...	34.....	San Dimas
Roome, Beatrice May.....	English...	58.....	Los Angeles
Roome, Harry Verrinder.....	E. Eng....	21.....	Los Angeles
Rosenkranz, Herbert Augustus..	Zoology...	118....	Los Angeles
Rowley, Nathan Ellsworth.....	Econ.....	44.....	Escondido
Ruschhaupt, Theodore August..	Chem.....	16.....	Fresno
Ryan, Bernice Lorane.....		17.....	Los Angeles

Name	Major	Hours	Home Address
Ryan, Sylvia Nigel.....	Spanish...	41.....	Los Angeles
Saverien, Arnold Egard.....			Los Angeles
Saylor, Oliver	Phil.....	12.....	Lemon

A. B. Lawrence University.

Schelm, Edith Caroline.....	German.....		Charter Oak, Ia.
Scherb, Louise Henry.....	Chem.....		Los Angeles
Schieber, Oliver Jay.....	C. Eng....	84.....	Los Angeles
Schoeller, Jacob Diehl.....		28.....	Los Angeles
Scott, Benjamin David.....		58.....	Los Angeles
Scott, Homer Davis.....		6.....	Los Angeles
Seppi, Joseph Lewis.....	C. Eng.....		Whittier
Sheats, Lura Marie.....	English...	114.....	Santa Ana
Sinclair, Roscove	E. Eng....	27.....	Los Angeles
Skinner, John Kenneith	M. Eng....	35.....	Los Angeles
Smith, Cleauncey			Los Angeles
Smith, Demis E.			Los Angeles
Smith, Wilbur Francis.....	History.....		Pasadena
Smith, Winifred Warner.....	English...	26.....	Ontario
Snyder, Stella May.....		35.....	So. Pasadena
Spaeth, Reuben Louis.....	Chem.....		Los Angeles
Spear, William Howard.....	M. Eng....	65.....	Los Angeles
Speicher, Ernest Edwin.....			Los Angeles
Speicher, Florence Catherine....	English...	107.....	Los Angeles
Speicher, M. Maude.....		45.....	Los Angeles
Squires, Alma Markella.....	Phil.....	49.....	Ontario
Standlee, Lela Mae.....		9.....	Downey
Steffy, Eva Pearl.....	History...	49.....	Santa Monica
Steller, Guy Earl.....		34.....	Los Angeles
Stephens, Vida Winslow.....	Pol. Sci...	96.....	Los Angeles
Stone, Ruby Cornelia.....	Latin.....	18.....	Los Angeles
Stookey, Adele	Rom. Lan.	141..	Hermosa Beach
Suman, John R.		18.....	Hollywood
Swain, Alma	English...	43.....	Whittier
Sweeley, Frank Merriman.....			Pasadena
Taft, A. Z.	Soc.....	45.....	Hollywood
Tagg, Harriet Grace.....	German...	18..	San Bernardino
Tajima, Kengo	German...	10.....	Los Angeles
Tamotsu, Kono	Soc.....	2.....	Los Angeles
Taylor, Alice Blanche.....	Latin.....	15.....	Compton

Name	Major	Hours	Home Address
Taylor, Robert John	Phil.....	9.....	Los Angeles
Teskey, Myrtle Eugenie.....		65.....	Los Angeles
Thompson, Edd G.		13.....	Los Angeles
Thompson, May Aldyth.....			Los Angeles
Thompson, William Ben.....		15.....	So. Pasadena
Thornton, Corliss Russell.....		13.....	La Mirada

A. B. University of Southern California.

Thornton, Ethel, W.	History...	107.....	La Mirada
Thornton, Virgel Orwyn.....		40.....	La Mirada
Tofte, George Everhart.....		2.....	Los Angeles
Traynor, Wilfred		13.....	Los Angeles
Trotter, Harry Ebert		6.....	Piru
Tucker, Myrtle Marguerite.....	Physics...	51.....	Gardena
Tupman, Alice Kate.....	Greek	31.....	Los Angeles
Twining, Mrs. Jennie M.	English.....		Los Angeles

A. B. University of Southern California.

Uber, Edna Radcliffe.....	Zoology...	48.....	Los Angeles
Unruh, Otto Adolph.....	Econ.....	51.....	Los Angeles
Vail, Grace Elizabeth.....		29.....	Los Angeles
Vertrees, May	Spanish...	15.....	San Jacinto
Vinsel, Edna Jessie.....		15.....	Los Angeles
Waddell, Gladys Margaret.....		15.....	Aurora, Neb.
Waggoner, Waverly Phares.....			Los Angeles
Wall, Arnold Edward.....		3.....	Los Angeles
Wallace, Kenneth Clark.....	Econ.....	50.....	Los Angeles
Warner, Willis Huxley.....		48.....	Huntington Beach
Weir, Edith May.....		8.....	Los Angeles
Wellborn, Mildred	English...	16.....	Long Beach
Wenk, Elizabeth		11.....	Los Angeles
Werber, Albert William.....	C. Eng....	11.....	Los Angeles
Werner, Gustav Adolph.....	History...	13.....	Los Angeles
West, Howard Frank.....	Econ.....	42.....	Los Angeles
Wharf, Bess Willard.....	Latin.....	45.....	Olney, Ill.
Wheat, George Jenner.....		18.....	Los Angeles
White, Elizabeth Frances.....			Syracuse, N. Y.
White, George Washington.....	Econ.....		Los Angeles
Wickham, Florence Mildred.....	German...	5.....	Monrovia
Wier, Clarence Dean.....	E. Eng....	16.....	Los Angeles
Wiley, Lena Ellen.....	History...	28.....	Downey

Wilkinson, Roy Albert.....	14.....	Los Angeles
Willett, Grace Alice.....	Greek 77.....	Los Angeles
Williams, Harry K.	C. Eng.....	Los Angeles
Williams, Helen Augusta.....	English.....	Los Angeles
Wilson, Bernice Celia.....	5..	Soldier's Home
Wilson, Irene	11+...	Los Angeles
Wilson, Norris Remington.....	23.....	Whittier
Wilson, Weston Stephens.....	15.....	Los Angeles
Winstanley, Ella Marguerite.....	44.....	Los Angeles
Wirsching, Carl Bernardino....	C. Eng.... 64.....	Los Angeles
Wood, Laura Mae.....	Math..... 97.....	Whittier
Wrisley, Pearl Hayden.....	16.....	Los Angeles
Wyatt, Julia Blanche.....	67.....	Hermon
Yerge, Clyde Scott.....	C. Eng.... 13.....	Los Angeles
Yoch, Agnes Cecilia.....	10.....	Santa Ana
Zander, Lucille Elaine.....	German... 49.....	Los Angeles
Ziegler, Ethel Grace.....	23..	Redondo Beach

THE PREPARATORY SCHOOL.

First Year.

Adams, Winola	Chamlee, Archie Ragland
Bargman, Ted Harry	Clark, Clifford
Bartlett, Gordon Jack	Clark, Loren Tompkins
Beamer, Josepha Helen	Coller, Clara Jane
Bell, Ruth	Crabill, Hazel Dell
Black, Emily	Creyhton, Thomas Neal
Boggs, Ina Viola	del Valle, Lucretia Louise
Botiller, Madeline	Flory, Earl Lester
Brite, Bertha	Fowler, Hazel Marjorie
Brodbeck, Mary	Frazier, Paul Aldridge
Brown, Myrtle Francis	Frazier, Roland Hilliard
Brown, Nina Monica	Gaynor, Alta Elizabeth
Bryant, Earsy Patrea	Gibson, Harry
Bryant, Effie Sufieur	Gilfillan, Gould
Bryant, Myrtle	Gillies, Hyslop Sinclair
Burch, Marguerite	Greenwood, Laura Knapp
Caldwell, William	Griffin, Herschel Raymond
Chan, Edward Spencer	Hatch, Clara
Chamberlain, Josie Louise	Haupt, William F.

Hine, Helen Beall
Howe, Mary Ellen
Howe, Marion Sprague
Humphrey, Frances Lucille
Huston, Robert C.
Inwood, Alfreda Gertrude
Joslin, Marian
Laird, Ridgley Powers
Lee, Andrew Baruch
LeFerre, Pearl Barnes
Lewis, Mamie Elizabeth
Locke, Charles Edward Jr.
Louden, Arthur James
Lovell, Roy
Lovett, Mame Lewis
Lowe, Henry
Low, Raymond C.
McWhorter, Helen Emma
McWhorter, Lela Margaret
Mead, Hazel Helen
Meeker, Leroy Ellsworth
Miller, Edward Edwards
Miller, James Raymond
Moles, Hazel Letitia
Morrill, Lee
Moses, Leigh
Myers, Ethel Augusta

Obear, William Frank
Parker, Ernest Theodore
Parrish, Emma Lorene
Pettyjohn, Edythe Mae
Reed, Leroy
Reiche, Clarence W.
Reily, Ralph Gamble
Scovel, Edith
Shartle, Hazel Artha
Shepard, Freda May
Shepard, Helen Bess
Snowden, Mildred Emma
Sterry, Philip H.
Stevenson, Irving Landor
Stivers, Virginia Irene
Strathearn, Isabella McKinley
Swarts, Lewis Earl
Thompson, Mrs. Josie Gertrude
Van Vranken, Arthur E.
Vogel, Bert F.
Whitmeyer, John Lawrence
Willecox, Vivian Elma
Willoughby, Phebe Sue
Wintrode, Henry Jacob
Wright, Gilbert Oliver
Wright, Todd Foster
Yaw, Frances Myrtle

Second Year.

Anderson, Susie Elizabeth
Baillie, Hugh
Bartholomeu, Charles Fechter
Becanon, Thomas Brenton
Beckett, Wilbur Archer
Bovard, Gladys Freeman
Chamberlin, Joie Louise
Chan, Katherine
Chapman, Inez Pauline
Chrysler, Everell Nelson
Chung, Margaret Jessie

Clark, Edna Georgia
Collison, Alice Margaret*
Coomber, Doris
Cunningham, Frederic Henry
Dalin, Carl Oscar
Davidson, Harold Victor
Dyer, Adrienne Emestine
Earl, Carl Everette
Elliott, Verne
Ellis, Francis Duffy
Engbrecht, John J.

Flick, Gertrude Lillian
 Foster, Emory Alfred
 Fowler, Blanche Helen
 Freeze, Lloyd Shurly
 Gibson, Bernice Edna
 Girdlestone, May
 Hagan, Evert Leo
 Knoles, Stella Ellen
 Law, William Russell
 Lee, Mary Ellen
 Locke, Lydia Margaret
 Lorentzen, Paul
 Ludwigs, John Richard
 Martin, Charl Eben
 Martin, Eugene William
 McMahon, James Vincent
 Meserve, Dorothy Annette
 Miller, Lucille Marguerite
 Moody, Harold Foster

Murdock, George Vencent
 Namkoong, David Yum
 Obear, Mary Katharine
 O'Neil, Mary Phila
 Parmelee, Lester Vernon
 Richards, John Lowrie
 Schader, Carl J.
 Smith, Bernice Belinda
 Snowden, Earle Forest
 Stevenson, Margaret Garrard
 Taylor, Lawrence Paul
 Thorne, Elsie May
 Tulles, Irma Aleen
 Tuttle, Rollin Simpson
 Wallace, Donald Joseph
 Watson, Homer William
 Werber, Paul Carl
 Wyatt, Charles Merrill
 Wyatt, Jane Dillon

Third Year.

Ayers, Lucile Jane
 Ayers, Loren William
 Bennett, Grace T.
 Bernays, Anna Louise
 Biggin, Helen Mabel
 Bomhoff, Grace Evelyn
 Bowers, Alice Teresa
 Brown, Laura Elizabeth
 Brown, Perry H.
 Buffington, Lilian Gertrude
 Bunker, Frank
 Chambers, Jennie Louise
 Chamlee, Rose May
 Cechin, Rose Christina
 Fisher, Ruth Lula
 Hall, Charles Walter
 Henderson, Carl Rankin
 Holloway, Joseph David
 Jegers, Hamilton Moore

Jolley, Park Bohman
 Jones, Beatrice Lorena
 Jones, Frances
 Kardell, Pearl
 Knoch, Alice Cornwall
 Last, Stewart Menzies
 Lorentzen, Samuel Ray*
 Lovell, Alta Josephine
 Malan, Martha Angeline
 Mann, Ernest Lee
 Michod, Rose Olive
 Mott, Albert De Witt
 Opp, Fred Walter
 Patton, Stanley
 Peck, Claude Elwood
 Powell, Walter Emit
 Shaw, Myra Mary
 Stabler, Dwight Wilbur
 *Deceased.

Sowden, Nellie Margaret
Vail, Ella Myrtle
Van Aken, Gertrude Elizabeth
Vermilion, David

Ward, Irtis Lee
Ward, Robert Winnie
Winston, Jane Chandler
Zatvornitsky, Valenteene A.

Fourth Year.

Allen, Lawrence Winfield
Amis, Anna Joyce
Beane, Lenore Salisbury
Beeson, Harold Clement
Buffington, Olive Lay
Burke, Walter E.
Chamley, Otto David
Couch, Wells Tyler
Cynn, Paul Ponghui
Dow, Louise Campbell
Duignan, Katherine Fern
Eckles, Leon LeRoy
Fiorini, Francis
German, Nita Bird
Gilson, Lewis Edward
Glass, Lois Belle
Gould, Jesse Amasa
Hammond, Emma Evelyn
Healy, Bernice
Hogan, Romaine
Hummel, Edward John
Hunter, Fanny
Hunter, Graham Burgess
Huntsberger, John Paul
Inwood, Grace Agnes

Jessup, Mary Catharine
Longshore, Milton Mahlon
Ludwigs, Rowena Margaret
Malan, William Edward
McQuigg, Harry Martin
Miller, Pearl G.
Neiswender, Leland William
Oertly, Bertha Elise
Prosser, James Don
Reiche, Charles Ferdinand
Riechers, Bertha Luise
Rocho, Victor Luman
Rogers, Earl Leroy
Sargent, Fred Walter
Shaw, George Hamlin
Smith, Eva Mae
Taggart, Elise
Tan, Ah Lok
Thorne, Ina Gertrude
Thorne, Mildred Eliza
Walters, Hazel Belle
Ward, Helen Josephine
Weaver, Charles Raymond
Young, Jessie St. Claire

SUMMER SCHOOL 1908.

Anderson, Frank Edward
Anderson, Rembert Coddington
Aspland, Marion G.
Ballard, John Hudson
Banks, Elizabeth
Barnhart, Percy Spencer
Beckett, Wilbur

Beringer, Virginia Ida
Berryman, John R.
Blunck, Irma
Blythe, Minor Z.
Boehucke, Frieda C.
Boller, Gordon
Bovard, Gladys Freeman

Bowers, Alice T.	Hardy, Frank Ray
Bowing, Lynden Flash	Harris, William L.
Brady, De Witt J.	Harter, Mary
Brown, Edgar Kapp	Healey, Bernice
Buffington, Chas. Stewart	Helm, Elisabeth
Chamberlain, Henry	Hepner, Alice
Chamley, Otto D.	Holmes, Ruth R.
Charles, Helen	Holt, Albert C.
Chelgrene, Silvia Elisa Dora	Hubbard, Carson B.
Clay, Jennie C.	Hummel, Edward John
Colestock, Harry Ludwig	Hunter, Graham B.
Coomber, Doris	Hunter, Katherine
Covell, Florence May	Hemner, Huston
Cushman, Clara E.	Jack, Norman M.
Cynn, Paul P.	Jessup, Walter E.
Daley, Clarence L.	Johnson, Nicolina
Dannecker, Lois	Johnson, Beatrice Lorena
Dingnan, Kittie	Jones, Ida Isabelle
Dorfmeier, Irene	Kellog, Eiffel
Dow, Louise C.	Kimmell, Ernst W.
Ensley, Oliver P.	Knipe, Bertha McE.
Ferguson, Cassie L.	Koebig, Walter C.
Fiorini, Francis	Landsetle, Lillian
Fitch, Frank B.	Leaming, Lucy E.
Fletcher, Katheryn	Levy, Sadie Ethel
Flinn, Homer John	Lowman, Sarah Ione
Foster, Emory Alfred	Macleish, Gordon Grant
Franks, Almetta Faye	McClelland, Ora Effie
Frost, William Joseph	McClurkin, Arthur A.
Gill, Ralph	Mee, Thomas Henry
Gilson, Lewis Edward	Miller, Lucille Marguerite
Girdlestone, May	Mitchell, Frances
Gleiss, Frank J.	Murray, Hamilton
Gleiss, Irene	Myrick, Lydia
Goodenow, Harold W.	Namkoong, David Yum
Grunwell, Mabel	Newberry, Claire Squires
Hampton, Jack E.	Noble, Dora A.
Hanlot, Leonie M.	Norcutt, James Edward
Hansen, Lulu Lindley	Oakley, Elizabeth Mary

Oakley, Mary Louise
Obear, Katharine
Parlin, Zula
Pillsbury, Bertha Lydia
Prince, Claude Raymond
Purcell, Ruth
Radford, Douglas R.
Rankin, George F.
Reed, Leslie J.
Rhodes, Emily D.
Rich, Willis H.
Rogers, Earl Levoy
Romig, Edith May
Samuels, Addie J.
Schweller, Jacob D.
Seagrave, Ina
Speicher, Florence C.
Stivers, Virginia
Stookey, Adell
Stoul, Minnie Lee
Summerbays, Elizabeth

Tan, Ah Lok
Tarbell, Grace W.
Thomas, Alma Marguerite
Thompson, Fanny
Thorne, Emily Agnes
Thorne, Mary Marguerite
Traphagen, Dorothy
Turner, Lena Loraine
Tuttle, Rollin S.
Vermillion, David Linton
Walbridge, Lester S.
Wallace, Donald Joseph
Ward, Helen Josephine
Wells, Eloise Gertrude
Wenk, Elizabeth
White, Edith May
Willet, Hugh Carey
Wilson, Clair
Wilson, Norris R.
Ziehlke, Joseph

THE COLLEGE OF DENTISRY.

Freshman Year.

Algeo, Walter S.
Bailey, H. P.
Barney, Chas. A.
Bundy, Arthur R.
Chang, Dai Yen
Chapman, Alfred B.
Codling, Horace G.
Crawford, J. F.
Crew, Leila
Craven, E. A.
Day, Chester A.
Dunlap, John T.
Fugasawa, Harry
Glassell, H. P.
Green, Fred C.
Henderson, Max M.

Iwata, Kaichiro
Jackman, G. Floyd
Kirkpatrick, H. D.
Maclin, John
McCoy, John R.
McLean, G. W.
Mitchell, F. W.
Moore, Leon D.
Moore, G. W.
Nance, Ed. F.
Pertson, Louis A.
Puckett, C. W.
Roberts, Earl K.
Sargent, Ray
Schildwater, Harry
Snipes, Thos. W.

Smale, John
 Smith, Hyrum G.
 Smith, Jackson

Smithers, John E.
 Sunderland, Egbert
 Stover, W. T.

Junior Year.

Ashmore, Grant
 Bergstrom, Hyrum
 Copp, Jos. P.
 Fukasawa, Harry J.
 Goode, W. A.
 Green, M. T.
 Hendrickson, W. M.

Jarvis, Hollis A.
 Maile, John V.
 O'Connor, William S.
 Ross, F. A.
 Stockman, D. D.
 Turrentine, D. E.
 White, Roy M.

Senior Year.

Abbott, Clyde A.
 *Aschenbrenner, C. F.
 Barr, John, B. S.
 Ballagh, H. A.
 Bolstead, Fred P.
 Chapin, Roy H.
 Coffield, G. A.
 Daniels, Earl A.
 Davis, Hugh M.
 Festenthal, Louis
 Foster, Douglas E.
 Hatcher, L. Edna
 *Howard, Jas. L.
 Inverarity, Frank
 Johnson, Alvin

Loughan, J. T.
 Lynn, Thomas
 *Misenhimer, L. L.
 Miyata, Yiyiro, M. D.
 Numbers, Ava B. H.
 Oka, N.
 Petterson, J. P.
 Ramirez, X. J.
 Sheaffer, John G.
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 Terao, K.
 Wessell, Geo. W.
 Yoshida, Y. K.

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THE COLLEGE OF LAW.

Freshman.

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 Arnoldy, Fred Nicholas, Sp.
 Ayers, Arthur Carlton
 Bowser, Vincent Eril, Sp.
 Bovee, Estelle
 Best, Oliver Warren
 Baldwin, Louis Judson
 Backus, Knowles Earle
 Blumberg, David

Childers, Charles Leroy
 Culver, Richard Joseph
 Cass, Phillip, Sp.
 Chamberlin, Harry Audry
 Cole, Henry Edmond
 Coleman, William
 Clapp, Reginald Wirt
 Converse, Norris May
 Curtin, George Rogers

- Duggan, Frank Alphonse
Decius, John Harmon
Donnell, Horace
Downs, Wilber Frank
Doherty, Frank Patrick
Durbin, William Resse
Dawley, Monroe Homer
Edmiston, Joseph Lee
Ellis, Thomas Earl
Edmonds, Douglas
Emme, Urban Francis
Fujii, Sei
Foster, Abram H.
Gardner, Chauncey Edgar
Griffith, Andrew
Green, Arthur William
Gault, Donald
Gewertz, Jennie
Hall, S. C.
Hitchcock, Earl Edmund
Hasking, Charles William
Haggart, Alexander McKenzie
Himrod, William Brown
Hart, Winslow C.
Hart, Abram Caruthers
Julian, William Bailey
James, Ralph Egbert
Jarrott, James Smith
Jones, Albert Atyeo
Jones, M. L.
King, William Lincoln
Keough, Joseph
Keys, Mark Butler
Kelley, William
Johnston, Walter
Leitch, Alexander Young
Lowe, Laura Alta
Lobdell, J. Karl
Land, Jesse Mearl
Lawlor, Reed Morris
Lee, Kenyon Ferrar
Meads, J. M.
Murray, Hamilton
Musgrove, John Joseph
Moeur, John Hubbard
Multhauf, Christopher Joseph
Miles, William, Jr.
Manion, Francis LeRoy
McCollough, Vernon Clare
McGregor, Charles
McDonald, Donald H.
McCreary, Charles
McCreary, Alexander
Nolan, Edward James
Nourse, Paul
Naugle, Harry David
Norton, R. H.
Potter, Charles Guy
Peyton, Robert Clark, Sp.
Peck, Earl C., Sp.
Parker, Elizabeth
Patten, Sarah Elizabeth
Phelps, John
Rosecrans, Leo Marmaduke
Ridson, Frederick Ray
Russell, Hartwell Cook
Roberts, David Berwyn
Rivera, Robert Parfirio
Robinson, Oliver Raynor Wade
Rich, Lysle S.
Rice, William Justus
Stanwood, Frederick
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Showers, Victor Paul
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Yager, Louis Jesse

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Bagley, Charles Leland
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Baird, William Smyllie
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Brewer, Cecil LaVerne
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Dieterich, Edward
Dillon, James de Koven
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Folsom, Niles C.
Finkenstein, M. J.
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Hopkins, Charles
Hitchcock, Alonzo Daffin
Hayek, Desidinos Francis
Howard, James Henry
Hopkins, Melville Perry
Heffelfinger, Raymond Wiley
Hall, Chapin
Kidder, Albert Augustus

Lyman, Edward Dean
Lloyd, Norman Angus
Montgomery, Plumber
Morton, Claude Bernard
Martindale, Emory DeForest
Mather, Wiley Wells
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McCoy, Lon Stephen
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Norman, Lucretia
O'hannesian, Aram
Owen, Earl Wilford
Petterson, Fred
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Peck, Earl C., Sp.
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Poole, William Jason
Phillips, Thomas W.
Pardue, Samuel Wollens
Randall, Lewis Bradley
Richardson, Frank Hull
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Stanton, Louis Bronson
Siemon, Alfred
Travis, W. T.
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Winnett, Earl Livesley

Watson, Van Hodgen
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 Wall, Arnold Edward

Williams, Charles Floyd
 Wilde, William Carl
 Wheelock, Ray Hoover, Sp.

Seniors.

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 Alex, Anna Randal
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 O'hannesian, J. George
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 Parrot, Kent Kane
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 Selph, Ewald
 Smith, Earle Henry
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 Williams, C. Prudence
 Williams, Charles Ezra

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 Baruch, Bertha Hirsch, Sp.
 Barrett, Elliott Heywood
 Craig, Gavin William
 Crandall, E. E.
 Campbell, Kemper Bramwell

Freeman, William A.
 Haas, John B.
 Lickley, Ernest Jameson
 McDowell, Elmer Root
 Veitch, Arthur L.

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 Ball, Adelaide

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 Barnett, Rena
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 Bell, Ruth

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McConnell, Hazel

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Overton, Mae
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Romig, Edith
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Sargent, Fred W.
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Stivers, Virginia
Stone, Ruby
Stokes, Beatrice
Stokes, Annie
Stump, Blanche
Swain, Alma
Taylor, Robert J.
Tuttle, Rollin

Wessell, Louis
 White, Una
 White, Mrs. Z. L.

Wood, Laura
 Zumwalt, Goldie

Class.

Ashcraft, Norman
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 Barman, Fred
 Boller, Gordon
 Bennett, Grace
 Bryan, Gloster
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Callison, Maude P.	Pearson, Leo E.
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Dorfmeier, Irene	Shoemaker, Clarice
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DuBois, Leonide	Smith, Vesta F.
Edwards, Bessie	Sorenson, Hilda
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Johnson, Emily	Wilson, Roy
Johnson, Hattie M.	Wirz, Freda
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Kemper, Virginia	Zimmerman, Fred A.
Kendrick, F. C.	

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Deragisch, Herman J. P.	Obarr, R. L.
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Franz, John B.	Scholl, William John

Shaw, Clarence C.
 Stauffer, Roy A.
 Steele, Earle M.
 Steinbuch, Margaret A.

Steinbuch, F. W.
 Swope, J. Leslie
 Thurston, Emory W.

Seniors.

Abramson, Max J.
 Berdrow, Otto N.
 Cooney, Frank
 Dolley, Harry H.
 Kelsea, Gertrude V,
 Liston, Harry E.

Nakamura, Shiro
 Peat, Raymond Richard
 Rouseyrod, Andre
 Taylor, Chas. D.
 Waite, Marion E.
 Weimer, D. T.

COLLEGE OF THEOLOGY.

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 Bryant, G. L.
 Clark, H. Brink
 Cooper, H. C.
 Coyne, Robert J.
 Edwards, F. C.
 Embree, A. B.
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 Gholz, W. J.
 Gould, E. D.
 Hill, J. T.
 Hilton, G. B.
 Ito, Heijiro
 Kimura, A. T.
 Laizure, O. C.
 Lewis, C. P.

Oswald, C. L.
 Perry, E.
 Pinekney, J. W. H.
 Reberger, W.
 Reed, L. J.
 Roberts, C. W.
 Ross, Fred
 Saylor, Oliver
 Smith, G. H.
 Smith, Fred A.
 Summers, W. L.
 Stone, W. C.
 Talbot, E. G.
 Tamura, P. K.
 Thornton, Corliss

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1910-1911

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THE UNIVERSITY

The University of Southern California was founded in 1879, and was formally opened for students in October, 1880. It includes the following colleges, each of which has a distinct faculty of instruction:

COLLEGE OF LIBERAL ARTS—35th Street and Wesley Avenue.
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Roy E. Schulz, A.B., Secretary.

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COLLEGE OF LAW—Exchange Bldg., Third and Hill Streets.
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A Preparatory School is maintained in connection with the College of Liberal Arts.

Information concerning any of the colleges, and year-books containing the courses of study, etc., will be mailed upon application to the addresses given above.

FOUNDERS OF THE UNIVERSITY.

These names include all the names of the first Board of Endowment Trustees and the first Board of Directors, and hence may be fairly held to represent the founders.

Asahel Morgan Hough; Edward Fallis Spence; Marion McKinley Bovard; Dr. Joseph Pomeroy Widney; G. D. Compton; Robert Maclay Widney; John G. Downey; P. Y. Cool; Charles Shelling; Edwin S. Chase; J. A. Van Anda; F. S. Woodcock; P. M. Green; Stephen C. Hubbell.

GOVERNMENT OF THE UNIVERSITY.

The government of the University is committed to a Board of twenty-one Trustees. This Board has the power to elect professors and other officers of instruction, to confer degrees, to manage the property of the University Corporation, and to determine the general policy of the institution.

The President has charge of the educational administration of the University and is chairman of the University Council. The principal administrative officers, other than the President, are the Deans, who have immediate charge of the work of the several faculties.

The University Council is a representative body consisting of the President, and the Dean and Secretary (or some other member of the faculty) of each of the several colleges. It is the duty of the Council to consider the courses offered by the several colleges with a view to increasing the efficiency and enlarging the range of University work, encourage original research and adjust all questions involving more than one of the colleges, and to advise the President upon such matters as he may bring before it.

ADVANTAGES OF LOCATION.

Los Angeles is the metropolis of Southern California. Its population of about 300,000 represents almost every State in the Union and many foreign lands.

The climate throughout the year is such that tourists from every quarter come to spend a part of the year, and many return to make this their permanent home.

It is the greatest railroad center on the Pacific Coast. Four transcontinental lines are now complete. A network of electric roads connects the city with the numerous beaches, mountain resorts and outlying towns. These are reached by delightful journeys through orange groves and orchards of semi-tropical fruits characteristic of the region.

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Will A. Knighten, D.D.,	1717 Court St.
D. W. Edwards, D.D.S.,	139 S. Commonwealth Ave.
J. B. Green, A.B.,	Hollywood
Geo. I. Cochran, A.M., LL.B.,	Pacific Mutual Bldg.
C. M. Jacques,	Pasadena

TERM EXPIRES IN 1912:

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Stephen Townsend,	Long Beach
Gail B. Johnson,	345 Westlake Ave.
George L. Hazzard,	Whittier
T. H. Oxnam,	2211 Cambridge St.
George W. Coultas, A.B., S.T.B.,	2223 Leoti Ave.
Julius A. Brown,	2227 Hobart Blvd.

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George F. Bovard	Julius A. Brown
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Festus Edward Owen, A.M.....637 W. 34th St.
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Associate Professor of the English Language and Literature.
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Assistant Professor of Botany.
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Assistant Professor of Latin and Mathematics.

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<i>Assistant Professor of English Literature.</i>	
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<i>Assistant Professor in Electrical Engineering.</i>	
Edna June Terry, A.B.....	3401 S. Flower St.
<i>Assistant Professor of Dramatic Art and Expression.</i>	
*Roy Malcom, A. M., Ph.D.....	
<i>Assistant Professor of History and Political Science.</i>	
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Zula F. Brown, A.B.....	1352 W. 30th St.
<i>Instructor in English.</i>	
Walter E. Jessup.....	1031 W. 31st St.
<i>Instructor in Civil Engineering.</i>	
Leslie F. Gay, Jr., A.B.....	2889 Idell St.
<i>Instructor in History.</i>	
Ester Huet y Ferrat.....	310 N. Broadway
<i>Graduate of Normal School, Puebla, Mexico.</i>	
<i>Instructor in Spanish.</i>	
Emma Burmeister.....	
<i>Assistant in German.</i>	
Frederick R. Brown.....	
<i>Assistant in Physics.</i>	
Maude A. Babcock.....	
<i>Assistant in Latin and Mathematics.</i>	
J. G. Davidson.....	
<i>Assistant in Chemistry.</i>	
Edna Cocks.....	
<i>Assistant in Women's Gymnasium.</i>	
Lucy S. Best.....	929 W. 35th St.
<i>Graduate of the State Normal School, Emporia, Kansas.</i>	
<i>Dean of Women.</i>	
Charlotte M. Brown.....	3023 Harvard Blvd.
<i>Librarian.</i>	

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<i>Secretary to the President.</i>	
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<i>Resident Secretary of the Y. W. C. A.</i>	
Tom L. Clay.....	836 W. 37th St.
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Charles L. Parmenter.....	
<i>Laboratory Assistant in Biology.</i>	
Percy S. Barnhart.....	
<i>Laboratory Assistant in Biology.</i>	
George J. Wheat.....	
<i>Laboratory Assistant in Chemistry.</i>	
G. Forrest Murray.....	
<i>Laboratory Assistant in Chemistry.</i>	
Ralph W. Clark, A.B.....	
<i>Field Assistant in Surveying.</i>	
Stephen H. Clark, A.B.....	
<i>Field Assistant in Surveying.</i>	
Leslie N. McClellan.....	
<i>Field Assistant in Surveying.</i>	

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<i>Dean of the Department of Medicine, and Professor of Gynecology and Abdominal Surgery.</i>	
James Harvey Seymour, M.D.....	310-311 Grant Bldg.
<i>Member of the Judicial Council and Professor of Clinical Surgery.</i>	
Orville O. Witherbee, M.D.....	606 Auditorium Bldg.
<i>Professor of Clinical Surgery.</i>	
Lyman Brumbaugh Stookey, A.M., Ph.D.....	Auditorium Bldg.
<i>Professor of Physiology and Chemistry.</i>	
James Tucker Fisher, M.D.....	602-603 Wright & Callender Bldg.
<i>Professor of Neurology.</i>	

- Thompson B. Wright, A.M., M.D.....
Kinney-Kendall Bldg., Pasadena, Cal.
Professor of Medicine.
- Sylvester Gwaltney, A.M., M.D.....717 Grosse Bldg.
Professor of Clinical Medicine.
- Walter Sydney Johnson, A.B., M.D.....717-719 Grant Bldg.
Professor of Obstetrics.
- Francis Oliver Yost, M.D.....2831 Downey Ave.
Professor of Pediatrics.
- William Leander Zuill, M.D.....Kendall Bldg., Pasadena
Professor of Otology, Laryngology and Rhinology.
- Frederick John Kruell, Ph.G., M.D.....1021 E. Washington St.
Professor of Materia Medica and Therapeutics.
- Thomas Jefferson McCoy, M.D.....636 Security Bldg.
Professor of Ophthalmology.

ASSOCIATE FACULTY.

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1058 North Los Robles Ave., Pasadena, Cal.
Associate Professor of Bacteriology and Pathology.
- Robert Henry Burton, M.D.....414 Grosse Bldg.
Associate Professor of Anatomy.
- Raphael Burke Durfee, M.D.....308 Fay Bldg.
Associate Professor of Anatomy.
- Ethel Langdon Leonard, B.S., M.D.....Auditorium Bldg.
Associate Professor of Histology.
- Albert B. Ulrey, A.M.....35th St. and Wesley Ave.
Associate Professor of Embryology and Comparative Anatomy.
-
Associate Professor of Medical Jurisprudence.
- George Jesse Lund, M.D.....414-417 Auditorium Bldg.
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Associate Professor of Gynecology.

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Associate Professor of Dermatology.
- John C. Ferbert, M.D.....222 Bradbury Bldg.
Associate Professor of Surgical Anatomy.
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Assistant Professor of Neurology.
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Instructor in Medicine.
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Instructor in Therapeutics.
- Ralph Louis Byron, M.D.....606 Auditorium Bldg.
Instructor in Osteology.
- Louis Weber, B.S., M.D.....511-514 Lissner Bldg.
Instructor in Medicine.
- Charles Worth Norton, M.D.....515 Wright & Callender Bldg.
Instructor in Minor Surgery.
- Edward William Hanlon, M.D.....510 Lissner Bldg.
Instructor in the Medical Department.
- Clarence H. Criley, Ph.B., M.D.....1141 W. Jefferson St.
Instructor in Anatomy.

- Peter C. Remondino, M.D.....San Diego, Cal.
Lecturer on History of Medicine and Medical Bibliography.
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Laboratory Instructor in the Medical Department.
- Downing D. Nice, M.D.....340 Douglas Bldg.
Assistant in Bacteriology.

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- Lewis E. Ford, D.D.S., Dean.....Security Bldg.
Professor of Operative Dentistry.
- Henry G. Brainard, A.B., M.D.....Exchange Bldg.
Emeritus Professor of Medicine.
- William C. Smith, D.D.S.....Pasadena, Cal.
Professor of Dental Pathology.
Materia Medica Therapeutics.
- Edward M. Pallette, Ph.D., M.D.....Hellman Bldg.
Special Lecturer on Nervous Physiology.
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- Charles D. Lockwood, A.B., M.D.....Pasadena, Cal.
Professor of Oral Surgery and Anesthesia.
- Garrett Newkirk, M.D.....Laughlin Bldg.
Professor of Ethics and Hygiene.
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Professor of General and Dental Histology and General Pathology.
- T. C. Myers, M.D.....223 W. Second St.
Professor of General Materia Medica and Therapeutics.
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Professor of Anatomy.
- B. F. Eshelman, D.D.S.....Dental College
Professor of Prosthetic Dentistry.
Porcelain and Infirmary Demonstrator.

- C. H. Bowman, D.D.S.....Dental College
Professor of Crown and Bridge Work.
Infirmiry Demonstrator, Crown and Bridge Technics.
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Associate Professor of Operativd and Clinical Dentistry
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Associate Professor of Physiology.
- J. Walter Gray, D.D.S.....Security Bldg.
Assistant Professor of Operative Dentistry.
- Eugene Overton, Esq.....Trust Bldg.
Lecturer on Dental Jurisprudence.
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Lecturer on Extraction and Anaesthetics.
- David D. Thornton, M.D.....Douglas Bldg.
Lecturer on Oral Surgery.
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Lecturer and Demonstrator on Porcelain, Crown and Bridge
Work.
- John C. Hopkins, D.D.S.....Byrne Bldg.
Lecturer and Demonstrator, Porcelain Inlays.
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Lecturer Dental Materia Medica.
- A. N. Lord, D.D.S.....Dental College
Demonstrator Infirmiry.
- M. Ellis, Ph.D.....
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Mrs. Norma Rockhold Robbins.....911 Lomita, Glendale, Cal.
Voice Culture.

Mrs. S. J. Brimhall.....417 W. Avenue 52
Piano.

Carrie A. Trowbridge.....1045 W. 35th Place
Piano.

Lillian M. Arnett.....947 W. 34th St.
Piano.

Madge Patton.....1210 Valencia St.
Piano and Dunning System.

Herr Oscar B. Seiling.....Blanchard Hall
Violin.

William H. Mead.....Blanchard Hall
Flute.

C. S. Delano.....2610 W. 8th St.
Guitar and Mandolin.

Pearl Alice Macloskey.....1017 W. 36th St.
Secretary to the Dean.

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Beulah Wright, Dean.....	444 St. Andrew's Place
<i>Professor of Oratory and Speaking Voice.</i>	
Gertrude Comstock, Ph. B.....	817 W. 23d St.
<i>Professor of Interpretation, Forensics, Physical Training.</i>	
Elizabeth Yoder.....	954 W. 36th Place
<i>Professor of Dramatic Art, Shakespeare.</i>	
Edna June Terry, A.B.....	3401 S. Flower St.
<i>Assistant Professor of Dramatic Art and Expression.</i>	
Albert B. Ulrey, A.M.....	1435 W. 22d St.
<i>Professor of Physiology and Hygiene.</i>	
James Main Dixon, A.M., L.H.D., F.R.S.E.....	450 Cervera St.
<i>Professor of English Language and Literature.</i>	
Dean Cromwell.....	1045 S. Boyle Ave.
<i>Director of Physical Education for Men.</i>	
Tully C. Knoles, A.M.....	275 E. 49th St.
<i>Professor of History.</i>	
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<i>Associate Professor of the English Language and Literature.</i>	

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Elizabeth Waggoner,	
<i>Metal.</i>	
Nell Danely Brooker,	
<i>Design.</i>	
Martha Schmierer,	
<i>Mythology.</i>	
Edna Chess,	
<i>Art History.</i>	

Emma Bridges,
Sacred History.

Bessie Edwards,
Anatomy.

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Professor of Chemistry and Toxicology.

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Ethel W. Graves, A.M.,
Assistant Professor of Inorganic Chemistry.

Andrew C. Life, A.M.,
Assistant Professor of Microscopy.

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Lecturer on Pharmacal Jurisprudence.

Erwin H. Miller, B.S.,
Lecturer on Food and Drug Adulteration.

L. Schiff,
Lecturer on Commercial Pharmacy.

C. L. Lowman, M.D.,
Lecturer on First Aid to the Injured.

Dean Cromwell,
Director of Physical Education.

*Absent on Leave of Absence.

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Dean. Historical and Systematic Theology.

George W. Coultas, A.B., S.T.B.,

Historical Theology and Comparative Religions.

James Blackledge, A.M.,

Hebrew Language and Literature.

Matt S. Hughes, D.D., LL.D.,

Pastoral Theology and Homiletics.

John G. Hill, A.M., S.T.B.,

Exegesis and Hermeneutics.

Festus E. Owen, A.M.,

New Testament Greek.

James Main Dixon, A.M., L.H.D., F.R.S.E.

Early Saxon Gospels.

Rockwell D. Hunt, A.M., Ph.D.,

Sociology.

George B. Smythe, D.D.,

Christian Missions.

COLLEGE OF LIBERAL ARTS

CALENDAR

1910.

Sept. 13	Tuesday.....	Entrance Examinations and Regis-
Sept. 14	Wednesday	tration for the First Semester.
Sept. 15	Thursday	
Sept. 16	Friday	Instruction begins and first assembly of First Semester held.
Nov. 24	Thursday.....	Thanksgiving Vacation.
Nov. 25	Friday	
Dec. 19	Monday	Christmas Vacation begins.

1911.

Jan. 1	Sunday.....	Christmas Vacation ends.
Jan. 26	Thursday.....	Day of Prayer for Colleges.
Jan. 30	Monday	Mid-year Examinations.
Feb. 3	Friday	
Feb. 3	Friday	First Semester ends.
Feb. 7	Tuesday.....	Entrance Examinations and Regis-
Feb. 8	Wednesday	tration for the Second Semester.
Feb. 9	Thursday	
Feb. 10	Friday	Instruction begins and first Assem- bly of Second Semester held.
Feb. 22	Wednesday.....	Washington's Birthday.
Mar. 27	Monday	Spring Vacation.
April 2	Sunday	
June 7	Wednesday.....	Final Examinations.
June 13	Tuesday	
June 11	Sunday.....	Baccalaureate Sunday.
June 15	Thursday.....	Commencement.
June 15	Thursday.....	Alumni Reunion and Banquet.
June	July	Six Weeks' Summer Session.

ADMISSION REQUIREMENTS

ADMISSION TO THE FRESHMAN CLASS.

1.—*Admission by Certificate.*

Candidates for admission to the freshman class must be at least sixteen years of age and must present evidence of good moral character. They must also give, either by certificate or by examination, evidence of preparation in 15 units of preparatory subjects selected from the general list of subjects described on the following pages. These 15 units must be made up of the following:

English,	2 units*
A Foreign Language,	2
Science,	1
Algebra and Plane Geometry,	2
U. S. History and Civics,	1
Electives,	7

The electives are determined entirely by the requirements for admission to the college course which the student desires to pursue.

For admission to the Engineering Course the 15 units must include the following:

English,	2 units
A Modern Language,	2
Chemistry,	1
Physics,	1
Elementary Algebra,	1
Advanced Algebra,	1
Plane Geometry,	1
Trigonometry and Solid Geometry,	1
U. S. History and Civics,	1
Freehand Drawing,	1
Mechanical Drawing,	1
Electives,	2

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

Candidates who have completed a regular course in the Preparatory School of this University, or in an accredited high school, may be admitted to the College of Liberal Arts without examination, on presenting a certificate signed by the principal. Unconditional credit will be given only for entrance subjects in which the candidate is specifically recommended. Recommendations will be accepted from any school accredited by this University, Leland Stanford Junior University, or the University of California. The faculty reserves the right, however, to require an examination upon any or all of the studies set for entrance, whenever there is doubt that the preparation has been sufficient. To insure entrance without examination credentials should be presented as early as possible before registration.

2.—Admission by Examination.

The regular examination for admission will begin Tuesday, September 13, 1910, when candidates will be examined in all the required admission subjects not covered by certificate from an accredited school.

3.—Conditional Admission.

Candidates may be conditionally admitted to the freshman class, if they are not deficient in more than twenty semester hours (two units) of preparatory work, but each case is referred to a faculty committee and only by vote of this committee can such admission be gained. They must, however, remove all such conditions before they may obtain junior standing.

PREPARATORY SUBJECTS.

The following items will serve to indicate both the kind and the amount of work expected in the different preparatory subjects accepted for admission, as well as the units of credit allowed for the same.

1. *English.* A short essay on an assigned subject will be called for, with the purpose of testing accuracy in spelling, punctuation, division into paragraphs, and power of expression in clear and correct English.

The candidate will also be required to give evidence of a

thorough study of elementary rhetoric and classic myths; and will be tested as to his knowledge of the subject matter, form and structure of the following works (or their equivalent):

Scott's *Lay of the Last Minstrel* and *Ivanhoe*; Hawthorne's *Tales of the White Hills*; Selections from Irving's *Sketch-book*; Lowell's *Vision of Sir Launfal*; De Coverly Papers; Coleridge's *Ancient Mariner*; George Eliot's *Silas Marner*; Carlyle's *Essay on Burns*; Macaulay's *Essay on Warren Hastings*; Tennyson's *Idylls of the King*; Shakespeare's *Merchant of Venice* and *Julius Caesar*. (2 units.)

2. *English Literature. With outline history of its development.* Chaucer's *Prolog*; Gray's *Elegy*; Wordsworth's *Tintern Abbey*, and *Odes on Intimations of Immortality and Duty*; Milton's *Minor Poems*; Shelley's *Odes To Night and To a Skylark*; Keats' *Ode to a Nightingale*; Browning's *Epilogue to Assolando* and *Rabbi Ben Ezra*; Burke's *Conciliation*; Webster-Hayne Debate; Shakespeare's *Midsummer-Night's Dream* and *Macbeth*. (1 unit.)

[Note: When a candidate shall offer, in addition to the above, an equivalent amount of other classics such as may be acceptable to the department of English, another unit will be granted.]

3. *Elementary Algebra.* This should include the following subjects: The four fundamental operations with emphasis placed on the type-forms in multiplication and division, factoring, highest common factor, and lowest common multiple, fractions and fractional equations, simultaneous equations of the first degree, the binomial theorem for a positive integral exponent, evolution, theory of exponents, radicals, quadratic equations, and the solution of problems involving the various classes of equations. Emphasis should be placed on factoring and on the solutions of equations. (1 unit.)

4. *Advanced Algebra.* This should include the following subjects: Mathematical induction; the proof and the use of the remainder and the factor theorems; the binomial theorem for a positive integral exponent; evolution, including the extraction of any root of algebraic polynomials, and also of arithmetic numbers; theory of exponents; complex numbers; radicals, and

irrational equations; theory of quadratic equations; simultaneous quadratics; inequalities; ratio, proportion and variation; arithmetic, geometric and harmonic series. Emphasis should be placed on the solution of equations by factoring, and on the demonstration of laws and principles. (1 unit.)

5. *Plane Geometry*. This includes the usual theorems and problems of elementary plane geometry. An important part of the work should be the solution of original exercises including problems in mensuration. (1 unit.)

6. *Trigonometry and Solid Geometry*. The development of the general formulae of elementary plane trigonometry; the theory of logarithms and the use of logarithmic tables; the numerical solution of plane triangles, and of simple problems in heights and distance. The fundamental propositions of solid geometry and especially those of spherical geometry. (1 unit.)

7. *Chemistry*. Laboratory and text-book work for one school year, such as outlined in Remsen's Introduction to the Study of Chemistry, or Newell's Experimental Chemistry. At least four hours per week throughout the year is required of actual laboratory practice in order to complete the amount of laboratory work desired. (1 unit.)

8. *Physics*. The equivalent of one year's work, including both laboratory and text-book work. Accurate notes of the laboratory work should be kept. Gage's Elements, or Carhart and Chute's High School Physics will serve to indicate the amount of text-book study required. (1 unit.)

9. *Botany*. A study in the laboratory and field of types of plant groups. Drawings and notes made directly from the specimens must be submitted as evidence of the character of the work done. A full year's work. (1 unit.)

10. *Zoology*. One year's work on the structure, relationship and habits of animals. Laboratory note-books with drawings will be required. (1 unit.)

11. *Physiology*. An equivalent of Martin's Human Body, —Shorter course. 1 unit.)

12. *Physical Geography*. The study of one of the leading text-books supplemented by at least forty exercises in individual laboratory work. (1 unit.)

13. *Elementary Latin*. For the requirements of Elementary Latin an accurate pronunciation is necessary, a thorough knowledge of regular forms and principles of syntax, a vocabulary of about fifteen hundred words, and the ability to translate easy prose at sight, and to write simple sentences. These attainments can be secured from the careful study of an elementary text-book and four books of Caesar, together with oral and written composition and occasional practice in sight translation. The examination in composition in 1910-1911 will be based on the second book of Caesar's Gallic War. (2 units.)

14. *Advanced Latin*. For the requirements of Advanced Latin the ability to translate at sight portions of Cicero's orations and Vergil's Aeneid is necessary, familiarity with the principles of the Latin hexameter and the ability to translate a passage of connected English based on Cicero. These attainments can be secured from the careful study of six of Cicero's orations and six books of Vergil's Aeneid, together with very thorough drill in oral and written composition. It is expected that a certified composition book will be presented for entrance credit. The examination in composition in 1910-1911 will be based on the oration Pro Archia. (2 units; without the composition, 1 unit.)

15. *Elementary Greek*. Grammar and Lessons; Anabasis, book I-III; prose composition. (2 units.)

16. *Advanced Greek*. Anabasis, book IV; Iliad, books I-III; prose composition; sight reading; review of the Grammar. (1 unit.)

17. *German*. A knowledge of the inflections of articles, nouns, adjectives, pronouns, weak verbs and usual strong verbs; also of the use of the modal auxiliaries, the common prepositions, the simpler uses of the subjunctive, and the order of words; the reading and translation of stories and plays, such as Storm's Immense and Benedix's Der Prozess; translation of easy English into German, translation at hearing and pronunciation. (2 units.)

18. *French*. A knowledge of the essentials of grammar, including the inflections of nouns, adjectives, pronouns, regular and common irregular verbs; the use of personal pronouns and the elementary rules of syntax; ability to pronounce accurately and to read smoothly; translation of modern stories and plays, such as About's *Le Roi des Montagnes* and Labiche and Martin's *Le Voyage de M. Perrichon*; translation at hearing and at sight; translation of easy English into French. (2 units.)

19. *Spanish*. Grammar, Garner, Monsanto or De Tornos; reading from Matzke's *Spanish Readings*, Knapp's *Spanish Readings*, Pepita Jimenez; translation of easy English into Spanish, and simple conversation in Spanish. Special importance attached to a knowledge of Spanish verbs. (2 units.)

20. *English History*. Coman and Kendall or an equivalent. (1 unit.)

21. *Grecian and Roman History*. Myers, or an equivalent. (1 unit.)

22. *Mediæval and Modern History*. Myers, or an equivalent. (1 unit.)

23. *United States History and Civil Government*. Channing, and Fisk, or an equivalent. (1 unit.)

24. *Freehand Drawing*. The study of light and shade and perspective by drawing and shading with pencil from geometric and simple life objects. ($\frac{1}{2}$ to 1 unit.)

25. *Mechanical Drawing*. The use of drawing instruments in line work, the construction of geometrical problems, and simple detail drawing. ($\frac{1}{2}$ to 1 unit.)

Note—In the case of students graduated from a recommended high school credit may be allowed for such subjects, not designated in this list, as are recommended by the principal and approved by the University faculty.

Candidates who offer subjects in Science will be required to present their note-books in the same.

ADMISSION TO ADVANCED STANDING.

Students from other institutions of recognized collegiate rank may be admitted to such standing and upon such terms as the Faculty may deem equitable, upon presentation of letters of honorable dismissal. Every such candidate is required to present a catalogue of the institution in which he has studied, with a full statement, duly certified, of the subjects he has completed, including subjects passed at entrance as well as those credited. The faculty reserves the right to determine, after a test of at least one semester, the amount of credit which a student may receive.

ADMISSION AS SPECIAL STUDENTS.

Persons of maturer age who desire to take up special work in one department, or in one subject with its related branches, may be admitted as special students, without becoming candidates for a degree; but they may become candidates by satisfying the entrance requirements for a regular course. Such students come under the same regulations as regular undergraduates, and forfeit their privileges by failure to maintain a good standing.

MATRICULATION AND REGISTRATION.

On or before the appointed registration days, in September and February, each student must register at the Registrar's office, and must enter upon a study card the subjects desired for the semester.

The study card, properly filled out and signed by the major professor and the Registrar, must be filed in the office not later than one week after the last appointed registration day. Late study cards will be accepted only upon the payment of a special fee of one dollar. A student desiring to enter any class must present his study card to the instructor for enrollment.

Students are urged to register on the appointed registration days. Absence from classes or laboratory are counted from the day on which instruction begins, and these absences incur the penalties stated under Absence from Exercises.

In the choice of subjects, all work necessary to remove conditions must be provided for first; and required subjects must take precedence of elective subjects.

Credentials will be considered at any time of the year, but since in general candidates cannot be assured of admission to the University without examination, it is important that credentials be forwarded as early as possible. Blanks for admission may be obtained by application to the Registrar's office.

GRADUATION.

The Degree of Bachelor of Arts.

The College of Liberal Arts offers as many courses from which the student may elect as there are departments in which a major is offered.

Each course the student may pursue is designed to give a liberal education and, except in the Engineering course, leads to the degree of Bachelor of Arts (A.B.).

The student must complete one hundred twenty semester hours of college work (exclusive of the requirement in Physical Education), which includes the required subjects, a major in one department, and a related minor.

A semester hour means one exercise a week throughout a semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture, and two hours of preparation or subsequent reading per week, or an equivalent amount of work in laboratory courses.

Fifteen hours per week of recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work. Students may register for as few as thirteen or as many as eighteen hours by making application to the Registrar.

The end of the sophomore year marks a differentiation in the work of the undergraduate course. In the junior and senior years the aim is toward University work in the true sense.

REQUIRED SUBJECTS.

In all the courses except in the Engineering Courses, in which the student is a candidate for the bachelor's degree, he must complete work as follows:

English, Rhetoric I., one year, six hours.

Science, one year, eight hours. (The science may be Chemistry, Zoology, Physics or Botany.)

Philosophy, one year, six hours.

Foreign Language, two years, twelve hours. (The language may be Latin, Greek, German, French, Spanish or Italian.)

History or Economics, one year six hours.

Physical Education, four hours.

The Freshman year should be devoted to the completion of thirty hours of these required subjects.

In the Engineering Courses the work of the four years is required as outlined under Engineering Courses.

Major and Minor Subjects.

Each undergraduate student must select the work of some one department as his major subject, but the selection may be deferred until the second year. The requirements for major work, which range from a minimum of twenty-four to a maximum of thirty hours, are stated elsewhere under Courses of Instruction. An equivalent of ten hours' work must be taken in a related subject, known as the minor subject, and selected with the approval of the major professor.

Where a student who has already selected his major subject desires to change it, and is able to meet the requirements of the new major subject, the change can be made, if approved by the professor of the old and new major subjects.

Elective Subjects.

Except for the above required subjects, and the requirements of the major and minor subjects, the work required for graduation is elective; but the student will confer with the professor of the major subject, as well as with the President of the University, in selecting such subjects as bear some useful relation to the course he is pursuing.

CLASSIFICATION OF STUDENTS.

Students who have no entrance conditions, and who have completed thirty semester-hours of the freshman year, are classed as sophomores.

Those who have completed sixty semester-hours are classed as juniors.

Those who have completed ninety semester-hours are classed as seniors.

Students who have completed one hundred twenty-four semester-hours, including all required work, and a major in one department with a related minor, are entitled to receive the degree of Bachelor of Arts.

ABSENCE FROM EXERCISES.

1. Excuse must be rendered for all absences from required exercises.

2. A student who is absent during a semester from more than one-tenth of the whole number of recitations or laboratory periods held in any subject shall be required to pass a special examination in that subject.

3. Where a student is absent from more than one-sixth of the whole number of recitation or laboratory periods, held during a semester in any subject, his registration in that subject is thereby cancelled. In case of such cancellation, however, if the student can show cause for his absence, and if his previous standing be such as to indicate that he can make up his loss and maintain a satisfactory grade of work in the subject, he may present his case to the Faculty and have his registration restored.

In applying this rule absence from the first or last recitation in a study, or consecutive absence in which either the first or last recitation is included, will be counted each as two absences.

4. Assembly exercises are held Monday, Tuesday, Thursday and Friday at 11:45. Attendance is required.

EXAMINATIONS AND GRADES.

Regular examinations are held at the close of each semester in the studies that have been pursued in different classes. After the examination, the parent or guardian of every student receives from the office a report, giving the student's standing for the semester. The general character of the work of the students in their several subjects is indicated by one of six grades, ranging from grade A, denoting the highest excellence,

through B, C, D, E, in a descending scale of merit to F, which signifies failure to pass.

A student whose work in a subject is marked conditioned or incomplete is delinquent in that subject. Such delinquency must be made up, in such manner as the instructor may determine, before the close of the year next after that in which the delinquency occurs. If the delinquency be not thus made up, the student is required to take the subject again with a class before he may receive credit for the same. A grade F may be removed only by taking the subject in class again.

When a student has incurred a failure in a subject he may not register for more than thirteen hours of new work in the following semester.

OPTIONS IN THE PROFESSIONAL COLLEGES.

When seventy-two hours (including all required work) have been made in the College of Liberal Arts, a student wishing to enter upon his professional studies before graduation from the College of Liberal Arts, may take the studies of the first year in the Medical Department of the University, and may receive the degree of Bachelor of Arts upon the satisfactory completion of three years' work in the professional course. Students electing this course are supposed to have completed a course similar to course C. or D. in the Preparatory School of the University, that is, requiring Drawing, Chemistry and Physics. At least one year of Latin is also required. (Any of these subjects not offered for entrance should be taken the first year.)

The required subjects in the College of Liberal Arts are the same as those for the regular candidate for the degree A.B., except that Zoology should be the elected Science, and German, the elected Language (provided Latin has been offered for entrance.)

The Pre-Medical Course (including required subjects) is outlined as follows:

Freshman Year.

English, Rhetoric I., throughout the year, 3 hours.

Science, Zoology, throughout the year, 4 hours.

Language, German (if Latin has been offered for entrance) throughout the year, 5 hours.

History or Economics, throughout the year, 3 hours.

Elective, throughout the year, 3 hours.

Total, 18 hours per semester.

Sophomore Year.

Philosophy, Psychology, throughout the year, 3 hours.

Language, German, throughout the year, 3 hours.

• *Elective* (Biology, English and History specially recommended), throughout the year, 12 hours.

Total, 18 hours.

The regulations for the current year shall prevail concerning fees.

When 94 hours (including all prescribed work) have been made, and of these not less than 72 in the College of Liberal Arts, the student may take the studies of the first year of the College of Law, and may receive the degree of Bachelor of Arts upon the satisfactory completion of two years in the professional course.

THE DEGREE OF BACHELOR OF SCIENCE IN THE ENGINEERING COURSES.

The degree of Bachelor of Science in Civil Engineering is conferred upon such candidates as may complete the four years' course in Civil Engineering.

The degree of Bachelor of Science in Electrical Engineering is conferred upon such candidates as may complete the four years' course in Electrical Engineering.

THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts (A.M.) is conferred upon graduates of the College of Liberal Arts of the University and upon others who have had an equivalent training elsewhere on completion *in residence* of at least a year's approved course of graduate study.

The course of study, which may be in any one or more than one of the departments of graduate study offered by the University, must be approved by the Committee.

The Master's degree may designate the special course pursued—*e. g.*, Master of Arts in Science.

Candidates must register not later than the first Tuesday in October next preceding the date of the final examination.

A thesis embodying the results of investigation on an approved subject in the major department must be submitted and be approved by the Committee on Graduate Study before the candidate may be recommended for a degree. The work of the candidate must show marked excellence; and the thesis must conform with the printed regulations furnished by the University.

The subject for the thesis must be submitted to the Faculty for approval through the major professor not later than January 10, and the completed thesis not later than the last Saturday in April of the year in which the degree is desired.

THE DEGREE OF MASTER OF ARTS AND THE DEGREE OF DOCTOR OF MEDICINE.

Upon students who complete the course in the Medical Department of the University after receiving the Bachelor's degree from the College of Liberal Arts or other institutions approved by the College, the degree of Master of Arts will be conferred on the following conditions:

1. A candidate for the degree of Master of Arts who is at the same time pursuing the regular course in the Medical Department must matriculate in the College of Liberal Arts at least two years before receiving the Master's degree.

2. The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

3. The regulations of the College of Liberal Arts shall prevail concerning fees and thesis.

THE DEGREE OF CIVIL ENGINEER AND THE DEGREE OF ELECTRICAL ENGINEER.

The professional degrees of Civil Engineer and Electrical Engineer are conferred on graduates of this University in the Civil Engineering and Electrical Engineering courses respective-

ly, on the satisfactory completion, in residence, of one year of graduate study, or on having been engaged in the active practice of their profession for at least three years, two of which shall have involved responsibility, and the presentation of an approved thesis showing ability to do independent work.

FEES AND EXPENSES

Undergraduate Study.

Tuition per semester, payable in advance.....	\$ 40.00
Tuition per year (two semesters) if paid in advance	80.00
Tuition for six to ten hours per semester.....	30.00
Tuition for five hours or less, per semester..	20.00
Athletic fee—required of all students, per semester	2.00
Gymnasium and physical education without other studies, per semester.....	8.00
Registration fee included in the above, but not subject to rebate.....	5.00
Diploma fee	5.00
Laboratory fees, per semester:	
Each course in Chemistry requiring lab- oratory work	8.00
Assaying	30.00 to 50.00
Physics:	
1 and 2 each.....	4.00
3 Mechanical	4.00
4 Shop	4.00 to 6.00
Electrical Measurements	6.00
Electrical Engineering:	
2 and 7 Dynamo Laboratory, each.....	8.00
Each course in Biology requiring labora- tory work	4.00
Surveying, field work, per semester.....	2.50

An account is kept of breakage and an additional charge made therefor.

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the year.

The sons and daughters of ministers in the regular work of any evangelical denomination may have their tuition fee reduced to one-half the regular rate.

A discount of ten per cent. of the tuition will be allowed when two or more students enter from the same family.

Tuitions paid in advance will be refunded proportionately should the student be forced to leave school on account of sickness. No refund will be made for an absence of less than half a semester.

Graduate Study.

Tuition per semester, payable in advance.....	\$35.00
Registration fee, included in above.....	10.00
Diploma fee	10.00

Students who have received the Bachelor's degree from the University of Southern California will pay only ten dollars per semester and the diploma fee.

DORMITORY AND BOARDING CLUBS.

The Hodge Hall and University Boarding Clubs furnish board for young men at very reasonable rates. Information concerning membership in these clubs can be obtained upon application.

A dormitory is provided for the young ladies, where wholesome board and cozy rooms can be obtained at reasonable rates.

Board and furnished rooms can be secured in private families at from three to seven dollars per week. Furnished rooms, accommodating two students, cost from four to twelve dollars per month.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not of necessity so great as to be burdensome to persons in moderate circumstances.

The Young Men's Christian Association conducts a free rental bureau for the benefit of all students and has all available rooms in the vicinity of the University campus listed and on file. The Young Men's Christian Association and the Young Women's Christian Association also conduct an employment bureau for the purpose of aiding needy and worthy students who are desirous of earning a part of their expenses while in school. Besides the odd jobs, permanent positions are secured for students. The general secretary of either association will be glad to answer any requests for information addressed to them.

GENERAL INFORMATION.

The College of Liberal Arts of the University of Southern California is situated in Los Angeles, about three and one-half miles southwest from the business section of the city. The College buildings are accessible by three lines of street cars, the Main Street, University and Pacific Electric lines. This is one of the most beautiful and rapidly growing residence portions of Los Angeles. The campus, comprising ten acres, has been improved by cement sidewalks and street grading on all sides, and a lawn in front of the main building.

Endowment and Improvements.

The endowment of the College of Liberal Arts, started a few years ago by the munificent gift of sixty-five thousand dollars by the late Rev. Asabel M. Hough and wife Anna G. Hough, has steadily grown until it has reached the sum of three hundred and fifty thousand dollars.

Substantial improvements have been made in all of the departments of the University. Many new books have been purchased and placed on the shelves of our Libraries.

The science halls of the College of Liberal Arts are well equipped with apparatus strictly up-to-date.

The gymnasium, the three tennis courts, the basketball court, the inclosed athletic field, with its quarter-mile cinder path, and the bleachers with thirty-five hundred sittings, furnish ample facilities for physical training and outdoor sports.

Religious Privileges.

The moral atmosphere surrounding the student is exceptionally good. The Young Men's Christian Association and the Young Women's Christian Association are active and effective in social and religious life.

In addition to the daily chapel exercises, courses of special sermons are delivered from time to time. These privileges constitute a good Christian atmosphere in which to lay the foundation of character. Students are expected to attend some church each Sabbath, and are advised to join some Sunday class for the study of the Bible.

The University provides, during the College year, a free course of lectures dealing largely with biblical subjects.

The University Methodist Episcopal Church is located near the campus, and is one of the most prosperous churches in the city. The Baptists and Presbyterians also have churches in the near vicinity. These advantages, together with fine public school privileges, make the University section of the city a very desirable place of residence for families seeking educational opportunities.

Ladies' Auxiliary.

An organization under this name is composed of more than fifty of the ladies of the city especially interested in the University. A cafeteria under their efficient management provides hot lunch or dinner at cost for students and faculties.

Literary Societies.

The Aristotelian Literary Society for men is the oldest of the societies connected with the College. It has a large and well furnished hall in which to hold its meetings.

The Comitia, also for men, is in a flourishing condition.

The Athena and Clionian Societies are for young women. They have finely furnished halls, and are doing excellent work.

The Library.

The Library is housed in the main building of the University. The Reference room contains the general reference books, and a carefully selected list of current periodicals. The stack room contains the circulating books. There are also two large study rooms, one on the main floor in the North Annex, the other on the second floor.

All officers, students and graduates of the University have free access to the Library and may draw books for home use. The shelves are open to the members of the faculty and students engaged in advance work upon recommendation of their major professor.

The Library contains over ten thousand volumes, exclusive of unbound pamphlets; also, what is known as the Dean Cochran Memorial Library, placed in the University by his son, George I. Cochran.

Each year books are added to meet the demands of the various departments.

The Library is open each day from 8 a. m. to 4:30 p. m.; Saturdays, 8:30 a. m. to 12 m.

The Museum.

An extensive collection of specimens in mineralogy and geology has been accumulated during the past years, by donations and purchase. Professor Dickinson, the first curator, opened the museum and classified it, making many donations from his own excellent private collection.

A few years ago the trustees purchased from Dr. Stephen Bowers a large collection of geological, mineralogical and archaeological subjects.

The late Rev. C. R. Pattee, D.D., donated about five hundred species of West Coast shells, a valuable geological, paleontological, mineralogical and conchological collection.

The late Mrs. Mary Wright has bequeathed to the University a very valuable collection of geological specimens.

Physical and Electrical Engineering Laboratories.

The departments of Physics and Electrical Engineering occupy nine rooms on the first floors of the main building and Science Hall. These have been planned and equipped exclusively for the departments and are suited for the purpose for which they are used.

The Laboratories include: (1) General Physical Laboratory, (2) Electrical Measurements Laboratory, (3) Photometer Room, (4) Physical Optics, (5) Dynamo and Motor Room, (6) Repair Shop, (7) Office and Private Laboratory, (8) Stock Room, (9) Preparatory Physics Laboratory, (10) Lecture Room. The equipment is furnished by the best American and European makers. It is of recent purchase, modern and best quality. The equipment in Mechanics includes a number of excellent precision pieces by Gaertner; in Heat, apparatus by Pye of Cambridge, Eng.; in Light, spectrometers, prisms, gratings, etc., by Gaertner and Wilson. In Electricity the equipment is especially complete and of high order. Special mention may be made of (1) Standard Resistances, Postoffice Boxes, Type H Galvanometers (four), Port-

able Galvanometers, Thomson Dynamometer, Standard Cell and Shunts made by Leeds and Northrup; (2) Potentiometer by Pyc; (3) Standard of Self-induction, Sechometer, Kempe Discharged Key and Permeameter by Nalder & Co., England; (4) Variable Condenser, Tangent Galvanometers and Keys by Queen & Co.; (5) Indicating Meters, for both Alternating and Direct Currents, in which the equipment is unusually complete, including a large number of Ammeters, Voltmeters and Wattmeters of the well known Weston make; also, Whitney hot-wire, Wagner induction, Hoyt torsion-head, Aryton & Perry plunger type and others.

The dynamo room is equipped with a Fairbanks-Morse gas engine for driving the electric generators. These consist of a 7.5 Kw. General Electric Co. revolving field Alternator, a 7.5 Kw. Three Rivers compound wound D. C. 125-volt generator and a 7.5 Kw. Westinghouse double current generator. The G. E. alternator is provided with a special winding for various phase and voltage connections, and with three extra rotors so that it may also be run as an induction motor with squirrel cage rotor, with external resistance rotor, or with internal resistance rotor. Controllers, rheostats and compensator are provided. The Westinghouse machine may be run as a 1, 2 or 3-phase alternator or as a 125-volt D. C. generator or as a Rotary Converter.

In addition to these machines there are also: Crocker-Wheeler 1.5 Kw. D. C. generator, Edison 1.5 Kw. D. C. generator, Westinghouse 800-watt D. C. generator, Westinghouse 1 and 5-horsepower induction motors, General Electric 1 and 3-horsepower induction motors, the latter with the phases wound in different colors and all the coils led to a terminal board. There are, also, transformers, water rheostats, arc lamps, switchboards, etc., in conjunction with the machines. Circuits run to the electrical measurements room and lecture room, and one of the motor-generator sets is arranged for operation in the lecture room for demonstration purposes. A stereopticon with slides showing modern electric installations is provided.

The Library contains a large number of reference books on many special subjects in Electrical Engineering and General Physics.

The Chemistry Building.

The department of Chemistry occupies the building in the southern portion of the campus. The laboratory for general chemistry will accommodate one hundred ten students; that for quantitative chemistry forty students; that for organic chemistry twenty-five students. The laboratories are thoroughly equipped with modern laboratory tables, water, gas, apparatus and chemicals; they contain a large number of hoods and all of the conveniences of a modern laboratory. The balance room is a separate room, well lighted and equipped with twelve fine analytical balances. The store-room is accessible from the different working laboratories and is supplied with a large quantity of apparatus and chemicals of the best make. A special research laboratory accommodating twenty-five students is thoroughly equipped with storage batteries for electro-chemistry, also with combustion apparatus and special apparatus for determining molecular weight. Another laboratory is equipped for investigations on oil and gas. The equipment consists of stills, hydrometers, viscometers, Atwater's bomb calorimeters for heat determination, Junker's patent gas calorimeters, Hempel's gas apparatus, Elliot's sulphur apparatus and a thermo-electric pyrometer. There are also four additional research laboratories.

Assay and Metallurgical Laboratory.

This laboratory occupies a large room in the new Chemistry Building. The equipment consists of rock crushers, ore grinders of several kinds, amalgamating fans, all driven by electricity. The furnaces are of the latest type, using gas for fuel. The equipment includes apparatus for concentration and amalgamation tests, as well as a complete cyanide and chlorination plant. Special facilities are afforded for the electrolytic-reduction processes. The laboratory is modern in every detail.

The Biological Laboratories.

The entire second floor of the new north wing of the main building is devoted to the biological laboratories and lecture room. The laboratories are so planned that each student has abundant light, 110 feet of desks face immediately to the north. Each student is supplied with two drawers and microscope locker, each with Craig combination locks.

The Zoological Laboratory, 34x35 feet, contains now forty-seven single desks and a large demonstration table 4x11 feet with drawers and cupboards on each side for supplies. The laboratory is provided with blackboard, glass cases for books, reagents and specimens; a sink, aquarium and drip for keeping live specimens. Each student is furnished a compound microscope, BA 2 or BB 2, dissecting instruments and necessary materials for dissection and study.

A Bausch & Lomb physician's type of microscope has been presented to the department by Mrs. Scherer in memory of her husband, the late Dr. Luther D. Sherer. The instrument is provided with a complete set of lenses and accessories as follows: Objectives, 1-12 inch oil immersion, $\frac{1}{8}$ inch with compensating collar, and $\frac{3}{4}$ inch. Two eye pieces, substage condenser, stage micrometer, eye-piece micrometer and other accessories, all in good condition.

The Botanical Laboratory is thirty by forty-five feet. It contains forty-four single desks with drawers, locker and Craig combination locks for each; a large demonstration table; cases for twenty thousand herbarium specimens, books and supplies; blackboards, sinks, aquarium and drip. A compound microscope, dissecting instruments and materials are furnished each student.

The Laboratory for Bacteriology and Physiology is 29x46 feet, facing the north. It is supplied with autoclave, Arnold and hot air sterilizers, incubators, glassware and all other necessary equipment for work in bacteriology. There are thirty-one single desks in this laboratory, a large demonstration table, two hoods and cooling chamber, sink, tank, tables, cupboards and case for reagents and supplies. All the necessary materials, apparatus and instruments including BB8 Bausch and Lomb microscopes are furnished the student. For Physiology the laboratory is supplied with all the necessary reagents and apparatus such as microscope, haemocytometer, dissecting instruments, etc., for successful laboratory work. A complete set of the Harvard Physiological apparatus has been added. For Histology and Embryology the student is supplied with BB8 microscope and has the use of the Minot automatic rotary microtome, Bausch and Lomb's automatic laboratory microtome, and all reagents necessary to carry on successful work.

The research laboratory, 15x17 feet, adjoins the office of the department which is also 15x17 feet. The equipment of these rooms is such as adapts them to advanced work along special lines. The best microscopes of German and American make are available, including Bausch and Lomb, CC8, Zeiss IIa, with achromatic and a set of apo-chromatic objectives with compensating eye pieces. Other microscopes of the Leitz and Spencer types, also imbedding baths, centrifuge, camera, numerous microscope accessories and instruments are provided.

The lecture room is 32x36 feet with raised seats. It has a seating capacity of about two hundred and is provided with skylight and fitted with screens for darkening to adapt it to the use of the electric projection apparatus and stereopticon which form part of the equipment. The lecture desk which is fitted with drawers and cupboards can be adjusted instantly for gas or water for demonstration purposes. This room as well as all others is well supplied with electric lights.

The wide halls have been provided with glass cases in which are placed a large collection of birds, mollusks and alcoholic specimens for demonstration and study. The collection of mollusks is very complete, representing over eighteen thousand specimens.

Athletics and Physical Culture.

The Faculty of the College of Liberal Arts, recognizing that physical culture is both hygienic and educative, desires to encourage every reasonable effort in the direction of physical development consistent with strong manhood and womanhood. On its hygienic side it should aid the body in all its functions, develop a symmetrical form, correct deformity as far as possible, and afford recreation. In its educative function it should afford the discipline necessary for self-control, both mental and moral.

There are two active tennis clubs with three well kept courts.

Gymnasium and Athletic Grounds.

Athletic sports are encouraged for their value in developing the body, in furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise.

The gymnasium has been fitted with appliances for the proper development of the body. The necessary apparatus of the newest and most approved designs has been provided. The director has made preparations for the training in the gymnasium of both the young men and young women, who will have separate lockers and baths and use the building at different periods of the day. The students have all the advantages of the gymnasium, with baths, lockers and dressing room accommodations.

A complete equipment is provided for each form of exercise. Galleries will afford audience room for special gymnastic exercises when such are open to the public.

Each student, on entering the department, undergoes a thorough physical examination, in order that his physical condition may be known to the director, and suitable exercise prescribed. Various strength tests and measurements are given; the heart, lungs and eyes are examined, and the utmost caution used in the advice given regarding individual exercise. One examination during each semester is required, the latter demonstrating any improvement or change in the student's physical condition. Anthropometric cards and charts are plated for students when desired.

Athletic Contests.

All athletic and team contests are under close supervision of the director and no student is permitted to compete in games or contests whose physical examination shows that he or she is unfit.

Any person who desires to enter athletic contests must attain a certain standard of scholarship before being permitted to participate.

Gymnastics for Women.

Before entering upon this training every young woman is given a thorough physical examination by Dr. Ethel L. Leonard of the College of Physicians and Surgeons, in order that only such exercises may be given as are suited to the student's individual needs. If owing to any physical inability to take the work with the regular classes it seems necessary to take special corrective work, private instruction may be arranged for.

The regular course includes gymnastics, athletics and physical culture. A combination of the Swedish and German system of gymnastics is used.

The gymnasium is well equipped with apparatus. All work must be done under the supervision of the Director.

The Athletic grounds are adjacent to the gymnasium and participation in out-door sports is expected of all young women taking physical training. They may elect tennis, volley-ball, basket ball, or walking.

Students are required to provide themselves with a special suit for gymnasium exercises. The Director must be consulted in this matter, in order that there may be uniformity of costume.

SCHOLARSHIPS.

The following scholarships have been founded in the College of Liberal Arts. Others contemplate the establishment of prizes and scholarships, and it is earnestly hoped that soon a goodly number can be offered. Friends of the College can greatly add to its attractiveness in this way.

The Hugh Johnston Scholarship.

This scholarship was founded by Mrs. Anna H. Johnston, of Pasadena, in memory of her deceased husband, and is for the benefit of needy students. Mrs. Johnston will name the incumbent when she desires. Otherwise this will be done by the authorities of the University.

The Spence Scholarship.

This scholarship was founded by the Hon. E. F. Spence in his life time, and is devoted to the use of needed students in the San Diego district, upon the recommendation of the District Superintendent of that district.

The A. C. Hazzard Scholarship.

A thirty-year scholarship founded by Rev. A. C. Hazzard, of Whittier, for the benefit of students preparing for Christian work.

The A. M. Peck Scholarship.

Founded by A. M. Peck of Compton.

The Poplin Scholarship.

Founded by F. L. Poplin of Los Angeles. The incumbent to be named by the founder.

The Ontario Scholarship.

For the benefit of graduates of the Ontario High School.

Zana E. Stevens Scholarship.

Founded by Rev. F. G. H. Stevens, September 16th, 1907, in memory of Zana E. Stevens, nee Terpenning, of the class of 1901. This scholarship is to be filled by a member of the J. O. C. Class of the First Methodist Episcopal Church of Santa Monica, of which Mrs. Stevens was the organizer and teacher. The incumbent is to be named by the founder when he so desires, otherwise by the District Superintendent of the Los Angeles District and the authorities of the University. In case no member of this J. O. C. Class is eligible, the incumbent shall be chosen from any J. O. C. members who apply for same. In case none such apply, the incumbent shall be chosen from any female students who apply.

The A. M. Hough Scholarship.

Founded by Mrs. Anna G. Hough May 7, 1908, by the payment of one thousand dollars. This scholarship is to be perpetual, and is to be used to aid some student each year in the College of Liberal Arts who is preparing to enter the ministry of the Methodist Episcopal Church. In case no such student should apply, the President of the University is authorized to use the scholarship to benefit any worthy student needing such help.

George I. Cochran Scholarship.

Founded by George I. Cochran; founder to name the student receiving the benefit.

PRIZES.

The Lottie Lane Prize.

This prize, established by Mrs. Charlotte A. Thomson as a memorial to a deceased daughter, is an elaborate gold medal, to be presented each year at Commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole college course. Students who have taken more than four academic years to complete the course or those who have received credit for work done elsewhere than in this College, are not eligible for this prize. This medal was awarded in 1909 to Leslie F. Gay, Jr.

The Oratorical Prize.

The Phi Alpha Fraternity gives an annual prize of twenty-five dollars for the best oration delivered in the local contest by an undergraduate; the Oratorical Association offers a second prize of fifteen dollars and a third prize of ten dollars.

The first prize was awarded in 1909 to Leslie F. Gay, Jr.

GIFTS TO THE UNIVERSITY.

The Hough Fund. This is a fund of \$65,000 given by Rev Asabel M. Hough, deceased, and his wife, Anna G. Hough, of Los Angeles. It is to be held by the University in perpetuity, and the income is to be used for current expenses of the College of Liberal Arts, or as the Board of Trustees may annually direct.

The Hazzard Professorship. Rev. A. C. Hazzard has given to the University, property valued at \$30,000 for the endowment of a professorship in English Bible.

The Merryman Professorship. Mr. T. D. Merryman has given to the University property valued at \$25,000 for the endowment of a professorship in Mathematics.

Hartupee Gift. This gift consists of \$22,500.

For further information address,

UNIVERSITY OF SOUTHERN CALIFORNIA,
Los Angeles, California.

DEPARTMENTS OF INSTRUCTION

BIOLOGY.

Professor Albert B. Ulrey (Zoology).

Assistant Professor, Andrew C. Life (Botany).

Laboratory Assistants:

Chas. L. Parmenter,

Percy S. Barnhart,

Earl E. Burk.

Courses adapted to the needs of students who do not major in Biology but desire some knowledge of organic nature and training in scientific methods are: General Zoology or General Botany and Bionomics.

Major work: (a) *Animal Biology*, courses 1-6; General Biology, courses 1 and 2; (b) *Plant Biology*, courses 1-5; General Biology, courses 1, 2 and 6.

Courses affording preparation for directors of Physical Education and Health and Development: Animal Biology, 1, 3, 4 and 5; General Biology, 1, 2 and 3; Anatomy, Physiology and Physical Diagnosis (courses given in the Medical College); courses in Education which are adapted to the student's needs.

The courses in General Zoology, Physiology, Bacteriology, General Botany and Bionomics are offered each year. Other courses given will be determined by the available time of the instructors and the needs of the students of the department.

Two or more assistants are selected each year from the advanced students of the department who maintain a high standard of scholarship and are otherwise qualified for the work.

ANIMAL BIOLOGY.

1. *General Zoology.* Laboratory study of representative types of invertebrate and vertebrate animals from the simplest to the most complex. A series of lectures co-ordinating the laboratory work and dealing with the general problems of Biology. The course includes a study of animal structure, functions, relationships and adaptation to environment. The student receives

instruction in the use of the microscope, dissecting apparatus, and is directed in the study of animals in their native environment. Ten hours laboratory work and lectures per week throughout the year. *Four hours, both semesters.* 2-3:50, Monday, Tuesday, Wednesday, Thursday.

2. *Histology.* The microscopic anatomy of animal tissues. Methods of preparation of tissue with practice in fixing, sectioning, staining and mounting. Laboratory work, lectures and recitations, six hours per week, one semester. Prerequisite: Course 1. *Three hours, either semester.*

3. *Embryology.* The general course of development of one of the higher vertebrates. Special study of the early stages of development of the organs. Embryological methods and practice in serial sectioning. The lectures deal with the general problems of embryology. Six hours per week, one semester. Prerequisites Courses 1 and 2. *Three hours, either semester.*

4. *Physiology.* Lectures, laboratory work and recitations on the activities of living organisms. Special study of the physiology of the human body. Six hours per week, one semester. Prerequisites Course 1 or Plant Biology 1. *Three hours, second semester.* 8-9:50, Monday, Wednesday, Friday.

5. *Anatomy of Vertebrates.* Dissection of types of the higher vertebrates; quizzes, recitations and lectures. The course is primarily for preparatory medical students. Six hours per week are required in the laboratory, one semester. Prerequisite Course 1. *Three hours, either semester.*

6. *Systematic Zoology.* The course deals with certain groups of vertebrates with special reference to morphology and relationships. Laboratory study, field work and lectures. Six hours per week, one semester. Prerequisite Course 1. *Three hours, either semester.*

7. *Advanced Physiology.* This course is given in the College of Medicine.

8. *Special Zoology.* Investigation of some topic of limited scope. This course is planned to meet the needs of each student prepared to pursue it. Six hours per week, throughout the year. Prerequisite Courses, 1, 2, 3, 4 and 5, or their equivalent. *Three hours, both semesters.*

PLANT BIOLOGY.

1. *General Botany.* The course comprises a study of typical plants representing the vegetable kingdom. The first semester as well as a part of the second is devoted to Thallophytes and Archegoniates; the remainder of the second semester to Spermatophytes. Laboratory study, field work and lectures. Ten hours per week throughout the year. *Four hours, both semesters* 10:25-12:10, Monday, Tuesday, Wednesday and Thursday.

2. *Plant Anatomy and Histology.* The minute structure of the systems of tissues. Microscopical technique in preparing permanent mounts. Laboratory work and lectures. Six hours per week, one semester. Prerequisite Course 1. *Three hours, either semester.*

3. *Plant Physiology.* Experimental work on the physiology of plants, lectures and supplementary reading. Six hours per week, one semester. Prerequisite Course 1. *Three hours, either semester.*

4. *Morphology of Bryophytes and Pteridophytes.* A critical morphological study of typical representatives of Bryophytes and Pteridophytes, their development from the germinating spore to the adult. Special attention is given to the relationships of the groups as indicated by their structure, and to the phases of alternation of generations illustrated by the types studied. Six hours per week, one semester. Prerequisite General Botany. *Three hours, either semester.*

5. *Ecology and Taxonomy.* A study of flowering plants (spermatophytes) in the local flora. The course deals with the relationship of plants to their environment; affinities indicated by their structure, and a brief consideration of pedigree-cultures. Six hours per week, one semester. Prerequisite General Botany. *Three hours, either semester.*

GENERAL BIOLOGY.

1. *Bionomics.* A course of lectures dealing with the general principles of Biology. The problems of inheritance, development and sex are considered from the cytological standpoint throughout the first semester. Variation, heredity, selection, regeneration and kindred topics are studied during the second semester. Two hours per week, throughout the year. Prerequisite

site General Zoology or General Botany. *Two hours, both semesters. 8:55, Tuesday and Thursday.*

2. *Bacteriology.* The course consists of a study in the laboratory and by means of lectures of the nature of the bacterial organism; its relation to disease, methods of cultivating and isolating; inoculation experiments, staining of sections, examination of water, etc. Six hours per week, one semester. Prerequisite Botany 1, or Zoology 1. *Three hours, first semester. 8-9:50, Monday, Wednesday, Friday.*

3. *Hygiene and Sanitary Science.* A course of lectures and laboratory demonstrations on (a) the improvement and preservation of health, and (b) the applications of science in the home. Open to all students. *Two hours, either semester.*

4. *Microscopical Technique.* A course dealing with special methods of Microscopy. Laboratory work and lectures. *Two hours, either semester.*

5. *Seminar.* The advanced students and instructors of the department meet two hours per week for reports on special investigation and present-day problems of biology. *One hour, both semesters.*

6. *Journal Club.* Reports on the current literature of biology, one hour per week throughout the year.

CHEMISTRY.

Professor Laird J. Stabler.

Assistant Professor, Ethel W. Graves.

Laboratory Assistants:

J. George Davidson,

Lorenzo A. Hampton,

George J. Wheat,

G. Forrest Murray.

Courses 2, 2a, 3 and 3a are prerequisite to all other courses in Chemistry.

In all laboratory courses except Course 14 a deposit of thirteen dollars per semester for each course is required. Of this, five dollars per semester, less breakage, is returnable. In Course 14 a fee of ten dollars is charged, and, in addition, a deposit of ten to thirty dollars is required to cover cost of material consumed.

LOWER DIVISION COURSES.

1. *General Inorganic*. A lecture and recitation course, covering the principles of Chemistry. Open only to students who do not present entrance credits in chemistry. Smith's Chemistry for Colleges. To be taken in connection with Course 1a. *Three hours, first semester*. 9:55, Monday, Wednesday, Friday.

1a. *General Inorganic*. A laboratory course in General Chemistry, including preparation of simple inorganic compounds, and experiments illustrating general laws and properties of elements and common compounds. Smith's Laboratory Manual. Six periods a week in the laboratory. *Two hours, first semester*. 1:05-3:50, Wednesday, Thursday.

2. *Qualitative Analysis*. Metals. Lectures and recitations dealing with detection and identification of metals. Prerequisite, Matriculation Chemistry. Smith's Chemistry for Colleges. To be taken in connection with 2a. *Three hours, beginning either semester*. 1:05, Wednesday, Thursday, Friday.

2a. *Qualitative Analysis*. Metals. A laboratory course in Qualitative Analysis, covering detection and identification of metals and a completion of unknowns containing metals. Morgan's Qualitative Analysis. Six hours a week in the laboratory. *Two hours, either semester*. 1:05-3:50, Monday, Tuesday.

3. *Qualitative Analysis*. Nonmetals. A continuation of Course 2. A study of Qualitative Analysis, including nonmetals, interfering substances and insolubles. To be taken in connection with 3a. *Three hours, either semester*. 1:05, Wednesday, Thursday, Friday.

3a. *Qualitative Analysis*. Nonmetals. A laboratory course covering identification of nonmetals, detection and removal of interfering substances, and a complete qualitative analysis of several minerals. Morgan's Qualitative Analysis. Six hours a week in the laboratory. *Two hours, either semester*. 1:05-3:50, Monday, Tuesday.

4. *Quantitative Analysis*. Laboratory practice in gravimetric and volumetric determinations, with occasional lectures and recitations. Talbot's Quantitative Chemical Analysis. Nine hours per week in the laboratory. *Three hours, both semesters*. Hours to be arranged.

5. *Advanced Qualitative Analysis*. A laboratory course in-

volving difficult qualitative separations, and detection of some of the rare elements. Weekly lectures and discussions. Prescott and Johnson's *Qualitative Analysis* is recommended for reference. *Three hours, either semester.* Hours to be arranged.

UPPER DIVISION AND GRADUATE COURSES.

6. *Inorganic Preparations.* A laboratory course including preparation of inorganic compounds, with tests for purity and strength. Prerequisite, Course 4. *Two hours, either semester.* Hours to be arranged.

7. *Organic Chemistry.* Lectures and recitations on the chemistry of the carbon compounds. Remsen's *Organic Chemistry*. *Two hours, both semesters.* 1:05, Monday, Tuesday.

7a. *Organic Preparations.* A laboratory course in the preparation of typical carbon compounds. Open to students who have completed Courses 2, 2a, 3a, 5 and 7. *Two hours, both semesters.* Hours to be arranged.

8. *Mineral Analysis.* Gravimetric and volumetric analysis of representative minerals, ores and alloys. Prerequisite, Course 4. *Four or five hours, either semester.* Hours to be arranged.

9. *Physical Chemical Measurements.* A laboratory course in physical-chemical methods. Molecular and atomic weight determinations by vapor density, boiling-point and freezing-point methods. Determination of conductivity of electrolytes, reaction velocity, isothermal and chemical equilibrium. Prerequisite, Course 4. Physics and Calculus. *Two hours, either semester.* Hours to be arranged.

10. *Quantitative Analysis of Agricultural Products.* Systematic analysis of fertilizers, dairy products, etc. Prerequisite, Course 4. *Four or five hours, either semester.* Hours to be arranged.

11. *Medical Chemistry.* A laboratory course, including urine analysis, toxicology and food analysis. Designed especially for students looking forward to medicine or pharmacy. Open to students who have completed or are taking Courses 4 and 7. *Three hours, either semester.* Hours to be arranged.

12. *Food Analysis.* A laboratory course in Chemistry of meat and meat products, edibles and fats, dairy products, cereal products, saccharine products, canned vegetables, cocoa, tea, coffee, spices, vinegar, flavoring extracts, fruits and fruit products.

fermented and distilled liquors, baking powders, food preservatives and coloring matter. Open to students who have completed Courses 4 and 7. *Two hours, either semester.* Hours to be arranged.

13. *Industrial Chemistry.* A lecture course covering the chemistry involved in the manufacture of oils, soap, sugar, explosives and other commercial products. Lectures will be given by chemists from various manufacturing establishments. Prerequisite, Courses 2, 3 and 7. *Two hours, second semester.* Hours to be arranged.

14. *Assaying.* This course comprises silver and gold extraction by scorification and crucible methods; fire assay of copper, lead and tin, extraction of gold from ores by the amalgamation, the chlorination, the cyanide and the electrolytic process. *Two hours, either semester.* Hours to be arranged.

15. *Seminar.* Papers and discussion on assigned topics, with lectures on subjects of general chemical interest. Open to advanced students. *One hour, both semesters.* Hour to be arranged.

Major Work: Sixteen semester hours in addition to courses 2, 2a, 3, 3a.

ECONOMICS AND SOCIOLOGY.

Professor Rockwell D. Hunt.

ECONOMICS.

LOWER DIVISION COURSES.

1. *Principles of Economics.* A comprehensive introduction to economic study, based upon Seligman's text and supplemented by lectures, assigned readings, and student exercises. The topics studied include: the elements of economic life; the nature of value, and its relations to distribution; the theory and practice of exchange, money, credit and banking; the factors of production; the social ordering of wealth. *Three hours, both semesters.* 9:55, Monday, Wednesday, Friday.

2. *Public Finance.* A study of budgetary science, the principles and practice of taxation, public expenditures, and financial administration. Adams' Science of Finance used as a basis.

Three hours, second semester. 8:55, Monday, Wednesday, Friday.

3. *Money and Banking.* Origin and evolution of money, with special attention to the problems of metallic and paper money; history and theory of banking, with examination of leading systems and special problems. *Three hours, first semester. Not given in 1910-11.*

4. *Economic Geography.* A survey of the history and present status of industry and commerce in the principal countries; natural advantages in the world market, and national policies in development of resources, with special attention to the United States. *Three hours, second semester. Not given in 1910-11.*

5. *Transportation and Communication.* The theory and history of transportation; development of the railroad, its organization, management and consolidations. Ocean and inland waterways. Problems of rebates, public regulation, etc. Postal service and express companies. Johnson's American Railway Transportation and his Ocean and Inland Water Transportation are used as guides. *Two hours, first semester. 8:55, Tuesday, Thursday.*

UPPER DIVISION AND GRADUATE COURSES.

6. *Labor Problems.* The important labor problems of the day, with special reference to American conditions. Growth of labor organizations, strikes and lockouts, industrial arbitration, profit-sharing, woman and child labor, immigration, etc. *Three hours, second semester. 2:00, Monday, Wednesday, Friday.*

7. *History of Economic Thought.* Development of economic thought from classical antiquity, with discussion of the different schools of economists. Extensive readings from numerous writers. *Two hours, first semester. 1:05, Tuesday, Thursday.*

8. *Recent Economic Thought.* A comparative study of theories of leading economists of the present day, with special reference to the problems of the distribution of wealth. *Two hours, second semester. 1:05, Tuesday, Thursday.*

9. *Municipal Problems.* The rise and growth of the modern city. Economic, administrative and social problems presented. Regular work of the class is richly supplemented by an extensive series of special lectures by leading practical experts. *Three hours, first semester. 2:00, Monday, Wednesday, Friday.*

SPECIAL LECTURES IN MUNICIPAL PROBLEMS.
1909-1910.

Congressman James McLachlan—"The Panama Canal and the Pacific."

General F. C. Prescott—"Distribution of the Public Domain."

Supt. E. C. Moore—"The Schools, the Children, and the Community."

Mrs. Willoughby Rodman—"Los Angeles and Her Future Citizens."

Assessor Walter Mallard—"Problems in City Taxation."

Dr. John R. Haynes—"Genesis of the Los Angeles Charter."

L. B. Austin—"The Young Man and the City."

Miss Grace Tatham—"The City's Young Womanhood."

Councilman A. J. Wallace—"City Government and Public Morals."

William M. Bowen, Esq.—"The Future of Agricultural Park."

George Leslie—"Help for Defective Children."

Miss P. S. Michelson—"Work Among the Juveniles."

Dr. E. S. Chapman—"What the Anti-Saloon Is Doing."

Rev. Charles Edward Locke—"Demands Upon a City Pastor."

Postmaster M. H. Flint—"Postal Service in a Municipality."

William Mulholland—"The Coming of the Water."

Lieut. C. W. Leeds—"The Harbor at San Pedro."

Dr. Dana Bartlett—"The Seer and His Vision."

Willis Booth—"Organized Publicity."

Note.—*Economics 1* is recommended to students taking the six hours requirement (*History or Economics*) in this department. It is prerequisite to other courses in *Economics*.

SOCIOLOGY.

LOWER DIVISION COURSES.

1. *Principles of Sociology.* Elements of social theory. The structure, development and activities of human society. A comprehensive study of the social process and social ends, with frequent application to concrete conditions. *Three hours, first semester.* 10:50, Monday, Wednesday, Friday.

2. *Social Problems*. Studies in practical sociology, based on Carroll D. Wright's text, with lectures and reports. Problems of population, the family, the modern city, temperance, crime, poverty, etc. Each student investigates some concrete local question and presents results. *Two hours, first semester. 10:50, Tuesday, Thursday.*

3. *Charities and Corrections*. Studies in social pathology. Poverty and philanthropy, the dependent classes, public and private administration of charities. The class visits charitable and reformatory institutions in Los Angeles and vicinity to study conditions and methods of social betterment. *Two hours, second semester. 10:50, Tuesday, Thursday.*

UPPER DIVISION AND GRADUATE COURSES.

4. *Social Theories*. A comparative study of the writings of leading sociologists of the present day. Extensive library work and frequent student reports are among the requirements. Open only to advanced students. *Three hours, second semester. 10:50, Monday, Wednesday, Friday.*

Note.—*Sociology 1 is prerequisite to other sociology courses, except by special permission. Major work in Economics and Sociology, thirty semester hours.*

EDUCATION.

Professor Thomas B. Stowell.

1. and 2. *Foundational Psychology*. (see Philosophy). *Six hours, two semesters.*

3. *Principles of Education* (including General Method). A study of Psychological and Educational Principles which underlie the work of teaching. It considers primarily the psychology of the acts of teaching; secondly, the nature of the subject-matter to be learned; thirdly, how the mind of the teacher adjusts the mind of the learner to the task set, and thereby constructs the art of teaching.

Among the topics considered are the following: Functional psychology; the problems of psycho-physics; the interdependence

of the various forms of mental activity as applied to education: nervous plasticity; habit, neural and psychic; types of mind; personality and environment; attention and interest.

A limited number of psychological experiments illustrative of the matter under consideration is followed by discussions of their respective educative values. Lectures, discussions, collateral readings, theses. Horne's "Psychological Principles of Education." Courses 1 and 2 a prerequisite. Open to upper division and to graduate students. *Three hours, first semester. 8:00, Monday, Wednesday, Friday.*

4. *Principles of Education* (3 continued). DeGarmo's *Principles of Secondary Education.* *Three hours, second semester.*

5. *History of Education: Ancient and Medieval.* Beginning with the earliest periods and extending through the period of the Reformation. A study of the development of educational ideals and systems with special reference to the agencies that have been operative in their evolution; the physical and the social conditions which change ideals. Lectures, collateral readings, theses. Monroe's "Text-Book in the History of Education." Open to upper division and to graduate students. *Three hours, first semester. 9:55, Monday, Wednesday, Friday.*

6. *History of Education: Modern.* From the Reformation to the present, with a critical study of educational classics, especially the contributions of Comenius, Locke, Rousseau, Basedow, Pestalozzi, Herbart, Froebel, Spencer and contemporary educators (5 continued). *Three hours, second semester. 9:55, Monday, Wednesday, Friday.*

7. *Aesthetics* (See Philosophy 8). This course considers the psychology of Aesthetics; the principles controlling the expression of beauty and their application to the Fine Arts, including a brief history of the Arts with special reference to their importance and effectiveness as educating agencies. Lectures, readings, observations, reports. Bascom's *Aesthetics.* *Two hours, first semester. 8:55, Tuesday, Thursday.*

8. *School Administration.* A study of the problems of school supervision. It considers the problems of organization, and administration of public schools. Among the topics treated are the following: Federal and State control of education; county town, city and rural systems; school buildings, site, architecture.

sanitation, furniture, ventilation, heating, lighting; seating of pupils; playgrounds; the school, a social center; courses of study; examinations; grading and promotion; school discipline; public and private schools; sectarian education; the duties and the inter-relations of boards of education, superintendents, principals, teachers; the distinctive problems of each; a comparative study of our State systems and of National systems. Observations in the schools of Los Angeles. Lectures, discussions, reading, observations, reports. Arnold's "School and Class Management." Open to upper division and to graduate students. *Two hours, second semester.* 10:50, Tuesday, Thursday.

9. *Education of Defectives and Feeble-Minded.* A historical and critical survey of the methods employed in the education of the blind; of the deaf and dumb; of the feeble-minded; of abnormal and backward children; of the ethically defective; of epileptics; care of neglected and dependent children; with observation in the various institutions of Los Angeles which are conducted for the special care and treatment of these unfortunates. This course is articulated with Sociology 2 q.v. Observations, reports, readings, discussions. Open to upper division and to graduate students. *One hour, first semester.* 10:50, Tuesday.

10. *Philosophy of Education.* An advanced course in educational theory. It investigates the nature of the psychic activities which make education possible and desirable; the essential nature of the educating process and its limitations; the actual development of this process as seen in the various civilizations; the relations of national institutions to educational ideals; the essential difference between ancient and modern education; the Hebraic conception and Imperialism as educative forces; the school essentially a social institution; the course of study an expression of the concept, "The Individual." Lectures, discussions, critical study of educational sources. Rosenkranz's "Philosophy of Education." Prerequisite, Courses 1, 2, 3, 4, 5, 6. For graduate students. *Three hours, first semester.* 8:55, Monday, Wednesday, Friday.

11. *Philosophy of Education* (10 continued). Horne's "Philosophy of Education." *Three hours, second semester.* 8:55, Monday, Wednesday, Friday.

12. *Health and Development.*

Measurements: Practical courses with laboratory work in normal measurements of children of school age; in diagnosis of variations from the standards, with special attention to the following: Chest development, flat chest, stoop shoulders, shallow respiration, spinal curvatures, congenital and acquired deformities, dislocations and injuries, corrections of abnormal conditions which are at the command of the school.

Health: Good, fair, poor; fatigue; frequent colds; lack of vitality; frequent headaches; dizziness.

Hygiene and Sanitation: School-room; seating, heating, lighting, ventilation, air-testing; lavatories; plumbing; drinking fountains; playgrounds; artificial respiration; first aid to the injured.

Prerequisites, see Schedule. Open to seniors. *Three hours, both semesters.*

13. *Health and Development.* Continuation of Course 12. Laboratory work in physical diagnosis, with seminar.

Vision: Defective eye-sight, near-sight, far-sight, astigmatism, strabismus; diseases of the eye; use of trial-case.

Hearing: Defective hearing; abnormal conditions of the ear.

Mouth: Defective speech, lisping, stammering, poor articulation, resonance of voice; teeth, irregularities, decay, neglect, need of attention.

Nose and Throat: Indications of adenoids, of enlarged tonsils; nasal voice; mouth-breathing; adenoid face.

Heart-action: Shortness of breath; poor circulation; pallor; lack of vitality; practice in use of stethoscope.

Nervous Condition: Excitability; nervous instability; fatigue

Contagious Diseases: Incipient stages of infectious and contagious diseases; appearance of skin diseases.

For graduates. Prerequisite, Course 12. *Three hours, both semesters.*

14. *Practice in Teaching.* The Preparatory School of the University, located on the University Campus, furnishes rare facilities for observation and for actual experience in handling classes and giving instruction to classes in Secondary Education. *Five hours, one semester.*

SCHEDULE OF COURSES IN EDUCATION.

UPPER DIVISION AND GRADUATE STUDENTS.

<i>Junior Year</i>		<i>Hours.</i>	<i>Semesters.</i>	<i>Total.</i>
1.	Education 1, 2. Psychology.....	3	2	6
2.	Sociology: Problems and Principles....	3	2	6
3.	Physiology (Prereq. Gen'l Zool.).....	3	1	3
4.	Bacteriology	3	1	3
5.	Sanitary Science	2	1	2
6.	Education 9. Defectives.....	1	1	1
7.	Electives	6	2	12
				—
				33

Senior Year.

1.	Education 3, 4. Principles of Educa- tion	3	2	6
2.	Education 5, 6. History of Education..	3	2	6
3.	Education 7. Aesthetics	2	first	8
4.	Education 8. Administration	2	second	2
5.	Education 12. Health & Development.	3	2	6
6.	Electives	6	2	12
				—
				34

Graduate Year.

1.	Education 10, 11. Philosophy of.....	3	2	6
2.	History of Philosophy.....	3	2	6
3.	Education 14. Teaching.....	5	1	5
4.	Education 13. Health & Development	3	2	6
5.	Electives	5	2	10
				—
				33

RECAPITULATION.

Junior.

Pedagogy	7 hours
General	6 hours
Science	8 hours
Elective	12 hours.
————— 33 hours	

Senior.

Pedagogy	22 hours	
Elective	12 hours	
		———— 34 hours

Graduate.

Pedagogy	17 hours	
Philosophy	6 hours	
Elective	10 hours	
		———— 33 hours
		———— 100 hours

ENGLISH.

*Professor James Main Dixon.**Associate Professor, Odell Shepard.**Dr. Ezra A. Healy, Lecturer in English Literature.**Miss Nancy K. Foster, Lecturer in English Literature.*

For major work in English all candidates must take courses A1 and B1 and 5, and C1, 2, 9, 10. For minor work, modern language, or history is recommended.

A. RHETORIC.

Special requirements for major work: A.3, 4; C.3, 4, 7, 8, 15. Minor recommended in French.

LOWER DIVISION COURSES.

1. *Composition and Rhetoric.* The first semester is devoted to narrative and expository writing based on Wendell's English Composition and Woolley's Handbook of English Composition. Second semester, paragraph writing, following Arlo Bates' Talks on Writing English. *Three hours, both semesters.* Section A, 8:00 Monday, Wednesday, Friday. Section B, 8:55 Monday, Wednesday, Friday. Section C, 10:55 Monday, Wednesday, Friday. (Professor Shepard.)

2. *Rhetoric Treated Editorially*. With practice in writing editorials, book reviews and critiques. Text-book: Denny & Scott's Paragraph-Writing. *Two hours, first semester*. (3 units.) 1:05 Monday, Wednesday. (Dr. Dixon.)

3. *The Rhetoric of Oratory*. With preparations of orations and briefs for debate. Text-book: Shurter's The Rhetoric of Oratory. *Two hours, second semester*. 1:05, Monday, Wednesday. (Dr. Dixon.)

4. *Short Story and Advanced Composition*. Extensive practice in narrative, editorial and essay writing. Open to all who have obtained a high grade in Freshman English. *Two hours, first semester*. 8:00, Tuesday, Thursday. (Professor Shepard.)

5. *Seminar in Rhetoric*. Systematic practice in theme-reading. Open to upper classmen upon consultation. *Two hours, both semesters*. (Professor Shepard.)

B. PHILOLOGY.

Special requirements for major work: B. 2, 5; C. 15, 17, with minor recommended in German.

UPPER DIVISION AND GRADUATE COURSES.

1. *Early English Grammar*. Text-book: Cook's First Book in Old English. *Two hours, first semester*. - 2:00 p. m. (Dr. Dixon.)

2. *Early English Poetry*. Text-books: Crow's Maldon and Brunanburgh; Harrison & Sharp's Beowulf. *Two hours, second semester*. 2:00 p. m. Monday, Wednesday. (Dr. Dixon.)

3. *Early English Prose*. Text-books: Wyatt's Early English Grammar, John's Gospel in West Saxon. *Two hours, first semester*. 2:00 p. m. Tuesday, Thursday. (Dr. Dixon.)

4. *Middle English from the Peterborough Chronicle to Piers Plowman*. Text-book: Emerson's Middle-English Reader. *Two hours, second semester*. 2:00 p. m. Tuesday, Thursday. (Dr. Dixon.)

5. *Chaucer*. Rapid reading, largely in the Canterbury Tales and The Legend of Good Women, based upon Greenlaw's Selected Readings from Chaucer, and the Globe Chaucer. *Two hours, second semester*. 8:00, Tuesday, Thursday. (Professor Shepard.)

6. *Origin and Growth of the English Language*. A systematic study of English as an Indo-European tongue, with the laws that have governed its development, and its relations to the Classical and Romantic Languages and the German and Scandinavian. Recommended for major work to all language students. Text-book: Krapp's *Modern English, Its Growth and Present Use*. One hour, both semesters. 1:05, Friday. (Dr. Dixon.)

C. LITERATURE.

Special requirements for major work: C. 5, 6, 16, 17. Minor recommended in History.

LOWER DIVISION COURSES.

1. *General Survey of English Literature*. Text-books: Crashaw's *The Making of English Literature*, Manley's *English Poetry*. Prerequisite for Elective Courses. Two hours, both semesters. 9:55, Tuesday, Thursday. (Miss Foster.)

2. *General Survey of American Literature*. Wendell and Greenough's *History of Literature in America*. Assigned readings and reports. Two hours, first semester. 8:55, Tuesday, Thursday. (Professor Shepard.)

3. *English Prose of the Seventeenth Century*. Text-book: Craik's *English Prose*, Vol. III. Two hours, second semester. 9:55, Tuesday, Thursday. (Dr. Healy.)

4. *The Modern Novel*. The aim of this course is to follow certain tendencies in the development of modern fiction. Extended study is given to Dickens, Thackeray, Jane Austin, Charlotte Bronte, George Eliot, and Meredith, with briefer readings from representative French and Russian novelists, and from contemporary writers. Two hours, both semesters. 8:55, Tuesday, Thursday. (Miss Foster.)

5. *English Poetry from Dryden to Cowper*. Text-book: Manley's *English Poetry*. Two hours, first semester. 9:55, Tuesday, Thursday. (Dr. Healy.)

6. *Nineteenth Century British Poets*. First semester—Wordsworth, Shelley, Keats, Tennyson. Second semester—Browning, Rossetti and Matthew Arnold. Three hours, both semesters. 9:55 Monday, Wednesday, Friday. (Dr. Dixon.) (Miss Foster.)

UPPER DIVISION AND GRADUATE COURSES.

7. *English Prose Writers of the Eighteenth Century*, with lectures on the growth of society and the development of movements and institutions. Text-book: Craik's English Prose, Vol. IV. *Two hours, first semester.* 9:55, Tuesday, Thursday. (Dr. Dixon.)

8. *English Prose Writers of the Nineteenth Century*. With lectures on modern thought and brotherhoods. Text-book: Dickinson and Roe's Nineteenth Century English Prose. *Two hours, second semester.* 9:55, Tuesday, Thursday. (Dr. Dixon.)

9. *Shakespeare*. Rapid reading of eighteen plays, supplemented by lectures on the stage customs, theaters, social conditions and dramatic ideals of Elizabethan London, as they bore upon the life and work of Shakespeare. Text-book: The Cambridge Shakespeare. *Three hours, second semester.* 9:55, Monday, Wednesday, Friday. (Professor Shepard.)

10. *Milton's Epic and Dramatic Poems*. Text: Cambridge edition of Milton's Complete Works. *Two hours, first semester.* 2:55, Wednesday, Friday. (Dr. Dixon.)

11. *Browning*. The aim of this course is to discover the salient characteristics of the poet's art and thought by the study of specially chosen dramas, lyrics and monologues. 10:50, Monday, Wednesday. (Miss Foster.)

12. *History of Greek Literature from Homer to Theocritus*. Lectures and recitations based on the work of the English translators of Greek masterpieces. Texts: Jebb, *Primer of Greek Literature*; Murray, *Ancient Greek Literature*; Symonds, *Greek Poets*, *Translations of Homer*—Pope, Bryant, Chapman, Lang, Leaf, Myers; Plumptre's *Sophocles and Aeschylus*; Potter's *Euripides*; Jowett's *Plato*. No knowledge of the Greek language is required. *Three hours credit, both semesters.* Two recitation periods per week, Tuesday, Thursday, 8:55. (Professor Owen.)

13. *Elizabethan Drama*. Lectures on the development of the English drama and stage from the publication of *Gorboduc* to the closing of the theaters. Eighteen plays are read. Three hours credit. Text-book: Symonds' *Predecessors of Shakespeare*. *Two hours, second semester.* 8:55, Tuesday, Thursday. (Professor Shepard.)

14. *Comparative Study of the Drama.* Lectures with assigned readings and reports on the Greek, Latin, Sanscrit, Italian, Spanish, German and French drama, read in English translation. Text-book: Matthews' Development of the drama. Open to students who have taken English C. 13, or its equivalent. *Two hours, first semester.* 9:55, Tuesday, Thursday. (Professor Shepard.)

15. *The Schools and Vocabulary of Literary Criticism.* Lectures on the history and development of criticism, with special attention to modern canons of criticism. Text-book: Bray's History of English Critical Terms. *Two hours, second semester.* 10:50, Tuesday, Thursday. (Dr. Dixon.)

16. *Philosophy of Literature.* Lectures with assigned readings and reports, forming a comprehensive sketch of the literature of the world. A study in the evolution and development of literary forms upon the basis of the biological analogy. Text-book: Hegel's Philosophy of History. *Three hours credit. Two hours, first semester.* 9:55, Monday, Friday. (Professor Shepard.)

17. *Seminar in Versification.* A close study of the laws of English prosody, with special attention to the relationship between music and verse. Musical notation for verse forms will be studied with Thomson's Basis of English Rhythm as guide. General text-book: Alden's English Verse. *Two hours, second semester.* 3:55, Monday, Wednesday. (Dr. Dixon, assisted by the English faculty.)

ENGLISH BIBLE.

Professor John G. Hill.

LOWER DIVISION COURSES.

1. *The Pentateuch and Historical Books of the Old Testament.* Hebrew origin, history, tradition, cosmogony, morals, laws, government, and religious philosophy from Abraham to Solomon will be mastered. The questions of date, author, purpose, plan, style of literary composition and ruling ideas of each book will be studied. *Two hours, first semester.* 1:05, Tuesday, Thursday.

2. *The Prophetic and Kingly Books of the Old Testament.* This course will survey the varied and swiftly changing periods of Hebrew and Jewish history from the close of the United Kingdom to the close of Old Testament times. The greatest stress, however, will be laid upon the study of the prophets; their unique place and power, their relation to state and Church, their distinctive messages and permanent contribution to the history of religion. *Two hours, second semester. 1:05, Tuesday, Thursday.*

3. *The Apostolic Age of the New Testament.* This course is a careful survey of the Apostolic Church of the first century, its origin, strange success, painful conflicts with Judaism, brutal persecutions by Paganism, its new life in the dying Empire; also a comparison of the religious ideas of Paul, Peter, James and John and their mode of inspiration. *Two hours, first semester. 2:00, Tuesday, Thursday.*

4. *The Gospel History and Literature of the New Testament.* A study of the life, teachings, work and significance of Jesus Christ as portrayed in the Four Gospels and as seen against the historic background of modern scholarship. Special emphasis is laid upon the living authority of Jesus and the ruling ideas of the Sermon on the Mount in sharp contrast to Jewish and Pagan religious ideas. *Two hours, second semester. 2:00, Tuesday, Thursday.*

UPPER DIVISION COURSES.

5. *Hebrew Wisdom Literature.* An advanced course in the wisdom books of Proverbs, Ecclesiastes, Job, etc., from the literary point of view. *One hour, first semester. 10:50, Tuesday.*

6. *Hebrew Poetic Literature.* This course will deal with the great mass of poetic literature found in the Bible, comparing it with other ancient literature. *One hour, second semester. 10:50, Tuesday.*

Two University Extension Courses are offered for the convenience of Sunday school teachers and others wishing to pursue Bible study in absentia.

FRENCH.

Professor Edgar von Fingerlin.

LOWER DIVISION COURSES.

1. *Elementary French.* Fraser & Squair's French Grammar. The essentials of grammar, exercises in pronunciation, reading, translation and composition. Dumas' *Histoire de Napoleon* or equivalent will be read in the second semester. *Le Voyage de M. Perrichon.* *Five hours, both semesters.* 8:55, Monday, Tuesday, Wednesday, Thursday and Friday. Course 1 is intended for students in the College who wish to begin the study of French.

2. *Modern French Reading.* Chateaubriand, Hugo, Balzac, Dumas. Syntax, Composition. Open to students who have credit for Course 1. *Three hours, both semesters.* 2:00, Monday, Wednesday and Friday.

UPPER DIVISION COURSES.

3. *Classical French.* Selections from Corneille, Racine, Moliere. Advanced French Composition. *Two hours, first semester.* Open to students who have completed Course 2.

4. *History of French Literature.* A text-book such as Doumic's *Histoire de la Literature Francaise* will be used. Also extracts from the seventeenth century literature. Beaumarchais, Le Barbier de Seville. To follow Course 3. *Two hours, second semester.*

5. *Teacher's Course.* Study of sounds, voice, homonyms, synonyms, word-formation, methods of teaching French, and those niceties of the language in which, as long experience has taught, even advanced students are deficient. While primarily intended for teachers, the course is open also to those who have finished Course 4. *Two hours, second semester.* Tuesday and Thursday.

6. *French Lyric Poetry in the Nineteenth Century.* G. Walch, *Anthologie de Poetes Francais Contemporaines.* Canfield, *Poems of Victor Hugo.* Open to those who have completed Course 4. *Two hours, second semester.*

7. *French Literature of the Eighteenth Century.* A study of the great writers of the eighteenth century (more particularly of the writers of comedies) and of their principal works. *Two*

hours, both semesters. For graduates and undergraduates. Open to students who have completed Course 6. Courses 6 and 7 will be given in alternate years according to demand.

Major work: 1-7.

GRADUATE COURSES.

1. *French Literature of the Renaissance*, based on Darmesteter and Hatzfeld's *Le Seizieme Siecle en France*, and accompanied by collateral readings and essays in French on works read. *Two hours, both semesters.*

2. *French Literature of the Eighteenth Century*. A study of the great writers and their principal works. Essays and reports in French on works read. Texts: Brunetiere Doumic, or Pellisier. *Two hours, both semesters.*

3. *Old French Reading*. Synopsis of Old French Grammar based on Dr. Nonnenmacher's *Lehrbuch der Altfrianzosichen Sprache*. *La Chanson de Roland*. Bartseh. *Chrestomatic de l'Ancien Francais*. *Two hours, second semester.*

4. *Historical French Grammar*. 1, Phonology. A study of the phonetic laws which have controlled the evolution of popular Latin into French. Darmstetter's or Nyrop's *Historical Grammar*. All these courses will not be given the same year, but arranged according to circumstances. Admission to any of these courses presupposes an undergraduate study of modern French and for Courses 3 and 4; also of some Latin. In these last courses a reading knowledge of German is very desirable, though not absolutely necessary, for purposes of reference.

GEOLOGY.

Professor Gilbert E. Bailey.

LOWER DIVISION COURSES.

1. *General Geology*. The course is designed to present to the student the fundamental principles of Geology. It includes the study of dynamic, structural, stratigraphic and historical geology by means of text-books and lectures. Special attention is

given to the geology of California and the Pacific Coast region. Students are given practice in actual field work. *Two hours, both semesters.* 9:55, Wednesday, Friday.

2. *Economic Geology.* A careful study of the mineral deposits of the State, both metallic and non-metallic. The lectures are supplemented by laboratory work. *Two hours, both semesters.* Hours to be arranged.

3. *Mineralogy.* A study of the properties, uses and methods of determination of the most important minerals. Laboratory work in blowpipe analysis and chemical tests. Lectures, field and laboratory work. *Two hours, both semesters.* 10:50, Wednesday, Friday.

GERMAN.

Professor Margaret Graham Borthwick.

Assistant Professor, Ruth W. Brown.

LOWER DIVISION COURSES.

1. *Elementary German.* Pronunciation, reading and grammar, with practice in speaking and writing German.

This course includes the essentials of German grammar, with various practical exercises in dictation, composition, translation at hearing, and oral and written reproduction.

During the second semester some interesting short stories and characteristic poems are studied. *Five hours, both semesters.* 8:55, Monday, Tuesday, Wednesday, Thursday, Friday.

Course 1 is intended for students who enter without German. It covers the ground of preparatory subject 10.

2. *Modern German.* Modern narrative and dramatic prose, selected poems, and one drama of Schiller or Lessing. Grammar continued, with written and oral exercises. Letter writing and composition once every week. Collateral reading. *Three hours, both semesters.* 8:00, Monday, Wednesday, Friday.

For students who have had Course 1, or two years of High School German.

3. *Scientific and Journalistic German.* Rapid reading of scientific prose, also leading articles in German newspapers and magazines. Oral exercises. *Two hours, both semesters.* 1:50, Tuesday, Thursday.

For students specializing in science. Open to those who have had Course 2, or its equivalent.

UPPER DIVISION COURSES.

4. *Classical Writers.* Dramas of Lessing, Goethe and Schiller. Lyrics and Ballads. Lectures and conversation on the life and works of each author studied. One written exercise each week. *Three hours, both semesters.* 2:00, Monday, Wednesday, Friday.

Open to students who have had Course 2, or its equivalent.

5. *Teacher's Course.* Review of grammar, with special emphasis on points necessary for teachers. Introduction to Victor's system of phonetics, with exercises in reading phonetic texts. Practice in pronunciation and in reading aloud. Recitation of poems, and reading of dramas with assigned parts.

Written exercises in grammar and advanced composition. *Two hours, both semesters.* 2:00, Tuesday, Thursday.

Required of all students majoring in German. Open to those taking any course beyond 3.

6. *Schiller.* Chronological study of Schiller's life and works. Reading of one complete drama, probably *Wallenstein*, with selections from other dramas and the principal ballads. Collateral readings and practice in composition. *Two hours, first semester.* 1:05, Monday, Wednesday.

7. *Goethe.* Chronological study of Goethe's life and works. Readings from "*Aus meinem Leben*," and Goethe's lyrics and dramas. Collateral readings and practice in composition. *Two hours, second semester.* 1:05, Monday, Wednesday.

8. *Nineteenth Century Literature.* Representative dramas and novels from Grillparzer, Hauptmann, Freytag and Scheffel. Open to students who have had Course 4, or its equivalent. *Three hours, first semester.* Course 8, alternating with Course 6, will not be given in 1910-1911.

9. *Goethe's Faust.* Interpretation and discussion of both parts, with short historical introduction and collateral reading

of Marlowe's *Faust* and of the *Puppenspiel*. *Three hours, second semester.* 1:05, Monday, Wednesday, Friday. Course 9, alternating with Course 7, will not be given in 1910-1911.

Major Work: Courses 1-9.

GREEK

Professor Festus E. Owen.

LOWER DIVISION COURSES.

1. *Beginning Greek.* Burgess & Bonner's *Elementary Greek*. Book 1 of Xenophon's *Anabasis* translated. Practice in sight reading from Book II. Pearson's *Greek Prose Composition* used in connection with the *Anabasis*. *Five hours, both semesters.* 10:50, Monday, Tuesday, Wednesday, Thursday, Friday.

2. *Xenophon's Anabasis.* Books II-IV translated. Thorough grammar drill. Daily practice in reading at sight. Pearson's *Greek Prose Composition* used daily in connection with the text. *Five hours, first semester.* 9:55, Monday, Tuesday, Wednesday, Thursday, Friday.

Homer's Iliad. Books I-IV read and translated, Books V-VI read at sight. Special attention given to Homeric forms, scansion, and mythology. Prose Composition and Grammar review. *Five hours, second semester.* 9:55, Monday, Tuesday, Wednesday, Thursday, Friday.

(Students planning to major in Greek, but who offer but two years of Greek for entrance, are required to take Course 2, second semester, in addition to courses prescribed for major work.)

3. *Herodotus.* Books VII and VIII; Lucian. Selections for rapid reading. *Three hours, first semester.* 2:55, Tuesday, Wednesday, Thursday.

4. *Plato.* *Apology* and *Crito* with selections from the *Phaedo*. Lectures on Greek Philosophy and Plato's ethics in relation to modern thought. *Three hours, second semester.* 2:55 Tuesday, Wednesday, Thursday.

UPPER DIVISION COURSES.

5. *Xenophon's Memorabilia, Selections.* Plato's *Gorgias* and *Protagoras*.

A careful study is made through lectures and assigned readings of the history of Greek Philosophy up to Aristotle.

The aim of this course is to introduce the student to the study of Philosophy with reference to its history, its problems and its effect upon human life. *Three hours, both semesters.* 1:05 Monday, Wednesday, Friday.

6. *Greek Tragedy.*

(a) Aeschylus—Prometheus.

(b) Sophocles—Antigone.

A careful study of the development of the Greek Drama will be made through lectures and assigned readings. Special attention given to the evolution of religious ideas and to the ethical tendencies in the Dramatists. *Three hours, first semester.* 1:05 Monday, Wednesday, Friday. Omitted 1909-1910.

7. *Homer.* Odyssey, four to eight books. Study of the whole period of epic poetry. Collateral reading from standard histories of Greek literature—Jebb's "Introduction to Homer" and Arnold "On the Translation of Homer. Lectures on Homeric religious, social and political customs. *Three hours, second semester.* 1:05 Monday, Wednesday, Friday.

8. *Herodotus and Thucydides.* Selections. *Three hours, both semesters.*

9. *History of Greek Literature from Homer to Theocritus.* This course consists of lectures and recitations based on translations together with papers on assigned topics. Jebb's "Primer of Greek Literature," and "Murray's Ancient Greek Literature," will be used as general guides. The aim is to secure familiarity with the great masterpieces of Greek Literature as well as to gain a comprehensive grasp of the important facts of its history. This course is of special value to those who expect to specialize in, or to teach English Literature. Open to all students. *Two hours, both semesters.* 8:55 Tuesday, Thursday.

Six hours credit will be given in Course 8 to those students not majoring in this Department. To those majoring in Greek, but four hours credit will be granted.

Major Work: Courses 3 to 9.

HISTORY.

Professor T. C. Knoles.

Professor R. D. Hunt.

Professor J. M. Dixon.

Assistant Professor Roy Malcom.

LOWER DIVISION COURSES.

1. *English History.* With special reference to social and literary development. Text book, supplemented by lectures, reports, and collateral reading. *Both semesters.* 10:50 Tuesday, Thursday. Dr. Malcom.)
2. *English History from a literary standpoint.* (1) From Cymbeline to King John. (2) From Edward I to Richard III. Text books: Cheyney's English History and Readings in English History. *One hour, both semesters.* (Dr. Dixon.)
3. *Greek History.* A detailed study of the conditions of ancient Greek life, with special reference to the evolution of political and social institutions. *First semester.* 8:15 Tuesday, Thursday. (Professor Knoles.)
4. *Roman History.* A series of investigations into the field of the evolution of the city-state of Rome. Lectures, readings, and reports. *Second semester.* 8:55 Tuesday, Thursday. (Professor Knoles.)
5. *Mediaeval History.* A general survey of the mediaeval period, with special reference to the development of the great institutions, both of church and state. Discussions on Mediaeval philosophic conceptions. Text book, Emerton's "Mediaeval Europe." Lectures, bibliography making, papers. *Both semesters.* 8:55 Monday, Wednesday, Friday. (Professor Knoles.)
6. *French Revolution.* Open to those students who have studied Course 5 or its equivalent. A series of studies in the field of French institutional life just preceding the outbreak of the revolution. Text book, Lowell, "The Eve of the French Revolution," collateral reading, reports on selected topics. 10:50 Monday, Wednesday, Friday. *First semester.* (Professor Knoles.)

UPPER DIVISION AND GRADUATE COURSES.

7. *Modern Continental Europe*. A course based on Andrews, "Historical Development of Modern Europe." Lectures and collateral reading. *Second semester*. 10:50 Monday, Wednesday, Friday. (Professor Knoles.)

8. *English Constitutional History*. For advanced students, prerequisite, Course 1. An examination into the origins and the evolution of the English Constitution. Lectures, reports. *Both semesters*. Hours to be arranged. (Dr. Malcom.)

9. *Colonial History of America*. The sources of American life, steps in the unifying process. Lectures and investigations. *Both semesters*. Hours to be arranged. (Dr. Malcom.)

10. *Institutional and Constitutional History of the United States*. Large use of the library, studies of cases, lectures, comparisons. *Both semesters*. 1:05 Monday, Wednesday, Friday. (Professor Knoles.)

11. *The Reformation*. A course open to advanced students and teachers. *First semester*. *Three hours*, to be arranged. (Professor Knoles.)

12. *The History of Japan from Legendary Times*. Japanese ideals and social customs. The aborigines of the islands of Yezo, Sakhalin and Formosa. New military and industrial Japan. Text book, Knox; "Japanese Life in Town and Country." *Two hours, first semester*. (Dr. Dixon.)

(b) *The Philippines*, historically and industrially. Text book, Le Roy, "Philippine Life in Town and Country." *Two hours, second semester*. (Dr. Dixon.)

13. *Pacific Slope History*. Special lecture course, with special reference to California. *Two hours throughout the year*, to be arranged. (Dr. Hunt.)

Major Work: Thirty semester hours.

ITALIAN.

Professor Edgar M. von Fingerlin.

LOWER DIVISION COURSES.

1. *Grandgent's Italian Grammar*. Bowen's First Italian Readings, Goldoni's *Il Vero Amico*, Grandgent's Italian Composition.

Three hours, both semesters. 11:20 Monday, Wednesday, Friday.

2. *Manzoni's I Promessi Sposi.* Silvio Pellico's *Le Mie Prigioni* and other modern writers. Composition. *Two hours, both semesters. 1:05 Monday, Wednesday.*

UPPER DIVISION COURSES.

3. *Dante, Tasso, Petrarca.* Advanced Composition. Lectures on Italian Literature. *Two hours, both semesters. Hours to be arranged.*

LATIN.

Professor Roy Edwin Schulz.

Assistant Professor Ruth W. Brown.

Assistant Professor Hugh C. Willett.

LOWER DIVISION COURSES.

1. *Cicero. De Senectute, Tusculan Disputations, Book I.* Careful interpretation of the text with practice in reading aloud with proper phrasing and emphasis without translation and in translation at hearing. *Three hours, first semester. 9:55 Monday, Wednesday, Friday.*

2. *Horace. The Odes and Epodes.* Lectures on the Augustan Age and Horace's contemporaries. Metrical reading, style and subject matter are given special attention. *Three hours, second semester. 9:55 Monday, Wednesday, Friday.*

3. *Latin Syntax.* A complete review in lectures and exercises of Latin syntax. The exercises are based on Cicero's *De Senectute*. The course is required of all registered for Course 1. *Two hours, either semester. 9:55 Tuesday, Thursday.*

4. *Latin Prose Composition.* Special attention is given to sentence structure, word-formation, and synonyms. *Two hours, second semester. 9:55 Tuesday, Thursday.*

5. *Latin Comedy.* During the semester at least one play of Terence and two of Plautus will be read. Special attention is given to early forms, meter, etc. Lectures on the development of Roman Comedy, on the Roman theater, on the presentation of plays and on Roman Life. *Three hours, first semester. 8:55 Monday, Wednesday, Friday.*

6. *Livy*. Selection from the extant books. Lectures on the history and literature of the period of foreign conquest. *Three hours, second semester*. 8:55 Monday, Wednesday, Friday.

UPPER DIVISION COURSES.

7. *Cicero*. Letters. Lectures on the history of the Republic from B. C. 133 with special reference to contemporary events. *Two hours, first semester*. 8:00 Tuesday, Thursday.

8. *Tacitus*. Agricola and Germania, or selections from the Annals. Lectures on the history and literature of the early empire. *Two hours, second semester*. 8:00 Tuesday, Thursday.

9. *Advanced Latin Prose Composition*. Writing of essays and letters in Latin. Translation of passages from English writers. Open only to students who have received a high grade in Course 4. *One hour, both semesters*. 2:00 Monday.

10. *History of Latin Literature*. Lectures on Latin Literature from Livius Andronicus to Boethius, with the interpretation of selections from all prominent authors. The course does not require a knowledge of Latin, and is open to students of all departments. Major students in the department will be required to do outside reading from text. *Two hours, both semesters*. 8:55 Tuesday, Thursday.

11. *Latin Poetry of the Republic*. Selections from Lucretius, Catullus, Ovid, Propertius and Tibullus studied largely with reference to thought and artistic form. *Two hours, first semester*. 2:00 Wednesday, Friday.

12. *Latin Poetry of the Empire*. Selections from Seneca, Martial and Juvenal. *Two hours, second semester*. 2:00 Wednesday, Friday.

13. *Teachers' Course*. Lectures on the Pedagogical Value of Latin, the work of the four years in the secondary school, the place of Composition, Prosody, History, etc., in the study of Latin; visiting-and reports from secondary school in the vicinity of Los Angeles; practice in teaching in the preparatory school of the University. Prerequisite, Philosophy 1.

Open to Juniors and Seniors. *Two hours, second semester*. 2:00 Tuesday, Thursday.

Major Work: Thirty semester hours, including Courses 3, 4, 9 and 10.

MATHEMATICS.

Professor Paul Arnold.

Assistant Professor Hugh C. Willett.

LOWER DIVISION COURSES.

1. *Theory of Algebra.* A lecture and text book course in which emphasis is placed principally upon the theory and the development of algebra. This course includes a review of elementary algebra, special attention being given to proofs of fundamental laws and principles. *Three hours, both semesters. 9:55 Monday, Wednesday, Friday.*

2. *Solid and Spherical Geometry.* The fundamental propositions of the Euclidean geometry of space. *Three hours, first semester. 8:00 Tuesday, Wednesday, Thursday.*

3. *Trigonometry.* Plane trigonometry and its applications, the trigonometry of the right spherical triangle, and logarithms. *Three hours, second semester. 8:00 Tuesday, Wednesday, Thursday.*

4. *Algebra.* Mathematical induction, equivalent equations, surds and complex numbers, theory of quadratic equations, simultaneous quadratic and higher equations, ratio, proportion, variation, the progressions and other simple series, inequalities, permutations and combinations, the binomial theorem for any exponent, limits and infinite series, determinants, theory of equations. *Two hours, both semesters. 8:55 Tuesday, Thursday (first semester). 8:00 Tuesday, Thursday (second semester).*

5. *Advanced Trigonometry.* This course is planned particularly for engineering students, and includes a review of plane trigonometry, as well as a thorough study of the fundamental principles of spherical trigonometry and the application of its formulas to the solution of spherical figures. Prerequisite, Course 3, or entrance trigonometry. *Two hours, first semester. 8:55 Wednesday, Friday.*

6. *Plane Analytic Geometry.* The analytic geometry of the straight line, the circle, and the conic sections, including a discussion of the general equation of the second degree, and some special examples in higher loci. *Five hours, second semester. 8:55 Monday, Tuesday, Wednesday, Thursday, Friday.*

7. *Analytic Geometry and Calculus.* This course is open to students who have taken Courses 1 and 3, and who wish a briefer and less technical treatment of analytic geometry and calculus than is given in other courses required of the engineering students: it includes some study of the history of mathematics. *Three hours, both semesters.* 10:50 Monday, Wednesday and Friday.

UPPER DIVISION COURSES.

8. *Differential Calculus.* Development of the fundamental principles and formulas, applications to various problems in geometry and analysis. *Three hours, first semester.* 8:00 Monday, Wednesday, Friday.

9. *Integral Calculus.* The general principles of the integral calculus are developed, and the usual applications made to centers of gravity, moments of inertia, and especially to geometry. *Three hours, second semester.* 8:00 Monday, Wednesday, Friday.

10. *Advanced Analytic Geometry.* A continuation of Course 6 or 7; and also a short course in Analytic Geometry of three dimensions. *Three hours, first semester.* Hours to be arranged.

11. *Differential Equations.* An elementary course for students who have taken Course 9. *Three hours, second semester.* Hours to be arranged.

12. *Analytical Mechanics.* The mathematical treatment of statics, kinematics and dynamics. Prerequisite, Courses 8 and 9. *Three hours, first semester; two hours, second semester.* 10:50 Monday, Wednesday, Friday, first semester; Wednesday, Friday, second semester. (Professor Lawrence.)

13. *Descriptive Astronomy.* A general course, requiring only the mathematics of Courses 1-3. Open to students in the last two years of the college course. *Two hours, both semesters.* 9:55 Tuesday, Thursday. (Professor Lawrence.)

Major Work: Thirty semester hours.

MUSIC.

Professor Walter Fisher Skeele.

Students who take harmony and theory, or advanced instrumental or vocal work in the College of Music may be allowed college credit for the same, but the credit shall in no case exceed fifteen semester hours, and will be given only upon the recommendations of the Dean of the College of Music.

ORATORY.

Professor Beulah Wright.

Associate Professor Gertrude Comstock.

Associate Professor Elizabeth Yoder.

Associate Professor Edna June Terry.

Students taking work in the College of Oratory may be allowed credit in the College of Liberal Arts, not to exceed fifteen semester hours, credits to be given only upon the recommendation of the Dean of the College of Oratory.

1. *Vocal Expression.*

(a) Principles of expression, voice building and tone placing. Expression of the body. Interpretation of literature from the text. *Two hours, either semester.*

(b) Advanced vocal training and bodily expression. Interpretation from modern authors. Kipling, Van Dyke, Stevenson, Maclaren, and others. *Two hours, either semester.*

2. *Public Speaking.*

(a) Extemporaneous work. Preparation and delivery of short speeches such as talks on current public questions, toasts, discussions. *Two hours, first semester.*

(b) Extemporaneous work. Preparation of briefs for debate, forensics, argumentations, lectures. *Two hours, second semester.*

3. *Oratory.* A study of masterpieces of oratory. Text, Sears' History of Oratory. The preparation and delivery of one original oration. *Two hours, either semester.*

4. *Bible and Hymn Reading.* Vocal Expression of the Bible and Hymns, Voice Building. Text, Curry's Vocal and Literary Interpretation of the Bible. *Two hours, either semester.*

5. *Vocal Interpretation.*

Lyric Poems. Training of the Imagination. Studies in Tennyson, Burns, Browning, Wordsworth and others. *Two hours, first semester.*

6. *Shakespeare.* King Lear or Julius Caesar, Midsummer Night's Dream or Twelfth Night. *Two hours, second semester.*

(Tuition for the above courses is payable at the Office of the College of Oratory.) (See Tuition College of Oratory.)

Provision is made for a special class in the principles of Expression, for those students who enter the college without the required Preparatory School work. This is an elementary course of two hours for one semester; no college credit will be allowed for it.

PHILOSOPHY.

Professor James H. Hoose.

Professor John G. Hill.

Professor Thomas B. Stowell.

LOWER DIVISION COURSES.

1. *Psychology.* The aim in this subject is to acquaint the student with what is valuable in the investigations in Mental Science. Text books, lectures and original investigations. This course is the required work in Philosophy. *Three hours, both semesters.* 8:55 Monday, Wednesday, Friday.

2. *Logic.* The elements in this subject as given in Creighton's Logic, with practical exercises. *Three hours, first semester.* 1:05 Monday, Wednesday, Friday.

3. *Ethics.* Borden P. Bowne's Principles of Ethics, accompanied by lectures, discussions, library references and special inductive and constructive studies in the ethical teachings of Jesus, the great poets and philosophers and autobiographers, ancient and modern; current ethical problems of the day are treated in the light of recent psychology and mental science. The last part of the semester is given to a detailed study of human duties, in-

dividual and social, civic and divine in accord with the rapid moral advance in applied ethics. Prerequisite, Psychology. *Two hours, first semester.* 9:55 Tuesday and Thursday.

4. *Theism and the Philosophy of Religion.* The aim in this Course is to carefully examine the leading ultimate grounds offered as explanations of reality, and to set forth the theistic ground of a supreme, self-existent, personal Being as the only satisfactory explanation. A clear philosophy of Religion is sought by a sympathetic study of the light which recent science sheds upon the problems of nature, man and mind. Modern Naturalism in its suicidal metaphysical implications and its inferiority to explanation by Personal Idealism is treated. The texts used are Iverach and Boŵne. Prerequisite, Psychology. *Two hours, second semester.* 9:55 Tuesday and Thursday.

5. *The Evidences and Philosophy of Christianity.* The various evidences for the truth of Christianity are canvassed. It is shown how the completion of the moral and religious process in man demands Jesus Christ; and how Christianity is the key to life's philosophy, answering the question: "How can we best explain the mysteries of life?" The many apologetic questions troubling the probing student touching ancient and modern difficulties concerning Christianity are vigorously considered. The text book work is supplemented by frequent lectures and library work. *Two hours, throughout the year.* 9:55 Wednesday and Friday.

UPPER DIVISION AND GRADUATE COURSES.

6. *Metaphysics.* This is an investigation into the determination of Being. For Seniors. *Two hours, second semester.* 10:50 Wednesday and Friday.

7. *Aesthetics.* A study of Beauty and its influences upon the Feelings, the Intellect, and the Will. *Two hours, first semester.* 8:55 Tuesday and Thursday.

8. *History of Philosophy.* Weber's History of Philosophy, covering Ancient and Modern Philosophy. *Three hours, both semesters.* 8:00 Monday, Wednesday, Friday.

GRADUATE COURSES.

9. *Philosophy of Civilization.* A course that investigates the Forces and Forms which have built up civilization. The study touches Philosophy of History.

10. *Oriental Philosophy.* An inquiry into the Forms of Living that have characterized Oriental Institutions.

11. *Philosophy of Kant.* Select portions of Kant.

12. *Philosophy of Hegel.* Select parts of his Philosophy.

13. *Philosophy of Governments.* An inquiry into the forms which sovereign power has assumed in the progress of historical governments. The study touches Philosophy of History.

POLITICAL SCIENCE.

Professor T. C. Knoles.

Assistant Professor Roy Malcom.

UPPER DIVISION COURSES.

1. *Elements of Political Science.* Historic origin of political science; theories of the state; nature of sovereignty; the structure and province of government. With lectures, readings and student reports. *Three hours, first semester.* (Dr. Malcom.) Hours to be arranged.

2. *International Law.* The nature, sources and principles of international law, the influence of Christian civilization upon rules and the contribution of the United States to its development. *Three hours, second semester.* (Dr. Malcom.) Hours to be arranged.

3. *Parties and Governments in Continental Europe.* A series of studies in the field of the comparison of the various methods of government in actual practice in the various states of continental Europe. Text book, Lowell, "Parties and Governments in Continental Europe." The text book is supplemented by a full reading course, and by many reports upon detailed topics. *Three hours, second semester.* (Prof. Knoles.) Hours to be arranged.

PHYSICAL EDUCATION.

Dean Cromwell, Director of Men's Athletics.

Elsie Vanderpool, Director of Women's Gymnasium.

Edna Cocks, Assistant in the Women's Gymnasium.

1. Systematic class work in gymnastics for men. The work consists of vigorous drill with dumb-bells, Indian clubs and wands, besides progressive graded work on the various pieces of gymnastic apparatus. Required of all first-year students. *Four hours, both semesters.* (Director Cromwell.)

2. An advanced course for men combining light and heavy gymnastics. Open to those who have completed Course 1. *Four hours, both semesters.* (Director Cromwell.)

3. Outdoor sports and light gymnastics for women; tennis, basket ball, volley ball, light work on the ladies' athletic field; recreative games and walking. *Two hours, both semesters.* (Miss Vanderpool.)

4. Systematic class work in gymnastics for women. The work consists of drill with dumb-bells, Indian clubs, wands and rhythmical exercises for grace and harmony of movement. *Two hours, both semesters.* (Miss Vanderpool.) Women's gymnasium classes meet Tuesday and Thursday at 9:55, 10:50 and 1:05. Women's tennis classes meet Monday and Wednesday at 8:00, 8:55, 9:55, 10:50, 1:05 and 2:00. Basket ball class for women, Monday and Wednesday at 3:50. Walking Club meets on Tuesday and Thursday, 3:50. The first Tuesday in each month the plunge is reserved at Bimini Baths for all gymnasium girls.

Men's classes meet Monday, Tuesday, Wednesday, Thursday, at 2:00, 2:55 and 3:50.

NOTE.—Four semester hours in Physical Education is the required and also the maximum number for an A.B. degree.

PHYSICS.

Professor Arthur W. Nye.

Assistant Professor J. C. Gaylord.

LOWER DIVISION COURSES.

1. *General Physics.* Electricity and Heat. Lectures 1:05 Monday, Tuesday, Wednesday. Laboratory arranged P.M. *Four hours, first semester.* (Nye.)

2. *General Physics.* Mechanics and Light. Lectures 1:05 Monday, Tuesday, Wednesday. Laboratory arranged P.M. *Four hours, second semester.* (Nye.)

These courses are open to all who have completed preparatory physics and trigonometry. They are intended to give the student a thorough grounding in the important laws and principles, together with their proofs and applications. The work is also of such a character as to form a basis for further work in special branches for students of engineering. Instruction is given by three periods of lecture and class-room work and three periods of laboratory work per week.

3. *Mechanics.* An advanced laboratory course continuing Course 1 may be taken concurrently with it. Experiments are made along such lines as moment of inertia, uniformly accelerated motion, modulus of rigidity, force of gravity, etc. Four periods of laboratory work per week, with occasional lectures. *Two hours, either semester.* Hours to be arranged. (Nye.)

4. *Shop Work.* Instruction in the use of wood and metal working tools and machinery, including cutting, filing, drilling, tapping, polishing, screw cutting and elementary lathe work. *Two or four periods in laboratory, one or two hours, either semester.* Hours to be arranged.

5. *Applied Electricity.* A course in the principles and applications of electricity. Prerequisite, Physics 1. *Two hours, second semester.* 9:55 Tuesday, Thursday. (Gaylord.)

UPPER DIVISION COURSES.

6. *Electrical Measurements.* A laboratory course in which the theory and methods of exact electrical determinations are taken up, including the determination of resistance by various

methods, galvanometer constants, measurement of current and electromotive force, insulation tests, hysteresis and permeability tests, calibration of instruments, use of condensers, measurement of induction, etc. Six periods per week. *Two hours, first semester.* 1:05-3:50 Tuesday, Wednesday. (Gaylord.)

7. *Advanced Heat.* A laboratory course consisting of work of the nature set forth in Millikan's "Mechanics, Molecular Physics, and Heat." Four periods in the laboratory with occasional lectures. Hours to be arranged. *Two hours, either semester.* (Nye.)

8. *Advanced Light.* A laboratory course involving considerable work with the spectroscope and photometer. Hours and credits to be arranged. (Nye.)

9. *Mechanism.* Mechanics of link motions, cams, quick-return motions, etc. Belts and rope drive. Graphical solutions of mechanical movements and forces. Gearing. *Two hours, first semester.* 8:00 Tuesday, Thursday. (Gaylord and Nye.)

SPANISH.

Professor Katherine T. Forrester.

Assistant Ester Huet y Ferrat.

LOWER DIVISION COURSES.

1. *Elementary Spanish.* During the first semester special stress is laid on foundation work. A thorough drill is given in pronunciation, reading and writing. Conversation is given from the beginning. Grammatical forms, especially regular verbs, are learned.

During the second semester besides this, short stories by prominent Spanish authors are read and translated. *Five hours, both semesters.* 8:55 Monday, Tuesday, Wednesday, Thursday, Friday.

2. *Advanced Spanish.* Prose Composition on practical subjects is given, using Ramsey's Grammar as a guide. Short stories are read and discussed in class. Letters and original compositions are given from time to time. Collateral reading of novels and drama. Reviews of same written in Spanish. *Three hours, first semester.* 9:55 Monday, Wednesday, Friday.

3. *Conversation* from text book, and articles taken from Spanish newspapers are given. *Two hours, each semester.* 9:55 Tuesday, Thursday.

UPPER DIVISION COURSES.

4. *Advanced Reading and Composition.* Reading from Gil Blas and Don Quixote are studied with a view to familiarizing the student with typical Spanish characteristics in literature. Outside reading of short novels. Reviews written in Spanish. Continuation of Grammar in connection with advanced exercises in Composition. *Three hours, second semester.* 9:55 Monday, Wednesday, Friday.

5. *Conversation.* Continuation of Spanish 3. *Two hours, second semester.* 9:55 Tuesday and Thursday.

6. *Contemporary Novels and Drama.* The work of important novelists, such as Alarcón, Valdes, Pardo, Bazán, Valera, Galdós, are read and reviewed. Conversation based on stories, read to the class. *Three hours, first semester.* 10:50 Monday, Wednesday, Friday.

7. *Modern Novels, Drama and Poetry.* A great deal of reading is done both in the class and as collateral work. The Spanish viewpoint is brought out and the life of the people studied through their literature. Discussions are carried on in Spanish. *Three hours, second semester.* 10:50 Monday, Wednesday, Friday.

8. *Classical Spanish.* Reading from Cervantes, Lope de Vega and Calderon. Picaresque novels and plays of Capa y Espada taken up. Short lectures given in Spanish on early periods of Spanish literature. *Two hours, each semester.* 10:50 Tuesday and Thursday.

9. *Lectures on Later Periods of Spanish Literature.* Reference reading in Fitz Maurice-Kelly and Tichnor. Forces which led to development in certain directions are pointed out. Much collateral reading is done. *Two hours, second semester.* 10:50 Tuesday and Thursday.

ENGINEERING DRAWING.

Professor Arthur W. Nye.

Assistant Professor Van Zandt.

1. *Drawing.* Review of projection and developments, lettering, blueprinting, machine drawing and office practice. Lectures and draughting. *Six hours, first semester.* 9:55 and 10:50 Tuesday, Thursday. (Nye.)

2. *Drawing.* Conventional signs and symbols, topographical maps, tinting and shading. *Six hours, second semester.* 9:55 and 10:50 Tuesday, Thursday. (Nye.)

3. *Descriptive Geometry.* Lectures and drawing, including representations of lines, surface and solids, with their intersections, tangencies and developments; shades and shadows, linear perspective and stereotomy. *One hour lecture. Four hours drafting.* Hours to be arranged. (Van Zandt.)

4. *Machine Design.* Advanced course in mechanical and electrical design; detailing, working drawings of complicated machine details, study of standard commercial machine parts, shop practice, strength of parts, use of tables, formulae and slide rule, gearing, estimating, specifications, structural iron and steel, lectures and practice. *Two hours class. Three hours drafting, second semester.* Class Drafting, 1:05-3:50 Thursday. (Nye.)

CIVIL ENGINEERING.

Professor Charles W. Lawrence.

Assistant Professor Jerome G. Van Zandt.

Field Work Assistant W. E. Jessup.

Field Work Assistant R. W. Clark.

Field Work Assistant S. H. Clark.

Field Work Assistant L. N. McClellan.

The great industrial development of recent years in every part of the United States has created a large demand for trained Civil Engineers. The course in Civil Engineering has been made quite broad in order to meet this demand, by providing a sufficient foundation for the wide range of practice now included under Civil Engineering.

Very few college students know in what part of this wide field their life work will lie. Because of this, and the great difficulty of mastering fundamentals during the stress of professional work, it has seemed best to provide a broad university preparation and to defer specialization to the period of active employment.

The course is designed to give a practical as well as theoretical training. Nearly as much time is spent in the drawing room, laboratory, and field, as in the lecture room.

By consulting the schedule following it will be seen that considerable time is devoted to Mathematics, English, Modern Languages, and Sciences. Of the more technical work, the Field Engineering is given very full treatment in lecture room, office and field.

In the third year Theoretical Mechanics is thoroughly developed and forms the basis for the designing and construction which occupies the remainder of the course. The importance of correct methods of thought and practice is constantly inculcated.

A very large amount of important Engineering work which is greatly diversified by the proximity of harbors, mines, irrigation and water supply projects, several trans-continental railway terminals, and a very extensive electric power, and interurban railway system, is continually going on in the vicinity of Los Angeles. Students in this Department, accompanied by Instructors, are required to inspect much of this work, and to present written reports on what they have seen.

REQUIRED COURSE IN CIVIL ENGINEERING.

FIRST YEAR.

First Semester.

	Lab. Hours.	Class Hours.
Math., 4, 5—Alg. and Trig.....	---	4
Chemistry, 2—Qual. Anal.	---	3
Chemistry, 2a	6	---
Civil Engr., 1—Surveying Theory	---	2
Civil Engr., 2—Field Work	6	---
Engr. Drawing, 1	6	---
English A., 1	---	3

Second Semester.

	Lab. Hours.	Class Hours.
Math., 6—Analytical Geom.....	...	5
Chemistry, 3 .....	...	3
Chemistry, 3a	6	...
Civil Engr., 1.....	...	2
Civil Engr., 2.....	6	...
Engr. Drawing, 2.....	6	...
English, A 1 .....	...	3

*SECOND YEAR.**First Semester.*

Math., 8—Differential Calculus .....	...	3
Geology, 3—Mineralogy .....	...	2
Eng. Drawing, 3—Descrip. Geom.....	4	1
Civil Engr., 13—Materials .....	...	3
Physics, 1—Elec. and Heat	3	3
French or Spanish .....	...	5

Second Semester.

Math., 9—Int. Calculus .....	...	3
Physics, 4—Shop	2	...
Geology, 3 .....	...	2
Civil Engr., 3—Higher Surv.....	3	1
Engr. Drawing, 3.....	4	1
Physics, 2—Mech. and Light.....	3	3
French or Spanish .....	...	5

*THIRD YEAR.**First Semester.*

Civil Engr., 7—Anal. Mech.....	...	3
Civil Engr., 8—Mech. of Materials.....	...	2
Civil Engr., 15—Graph. Statics	3	1
Civil Engr., 4—R. R. Engr. Theory.....	...	2
Civil Engr., 5—R. R. Engineering Practice.....	6	...
Elect. Engr., 1—General .....	...	5
Thermodynamics .....	...	2

Second Semester.

Civil Engr., 7	2
Civil Engr., 8	3
Civil Engr., 16—Stresses	3
Elect. Engr., 5—Steam Engr.	3
Civil Engr., 9—Hydraulics	3
Civil Engr., 6—R. R. Economics	2
Civil Engr., 18—Struct. Design.....	6

*FOURTH YEAR.**First Semester.*

Civil Engr., 18—Struct. Design	6	1
Civil Engr., 15—Foundations	2	2
Geology, 1	2	2
Math., 10—Astronomy	2	2
Civil Engr., 17—Engr. Lab.	3	...
Civil Engr., 11—Water Supply	2	2
Civil Engr., 12—Sanitary Engr.	2	2
Civil Engr., 10—Irrigation Engineering	1	1
Civil Engr., 23—Thesis	1	1

Second Semester.

Civil Engr., 18	4	1
Civil Engr., 20—Tunneling, Mining	1	1
Geology, 1	2	2
Math., 10	2	2
Civil Engr., 21—Reinforced Concrete	3	1
Civil Engr., 22—Contracts and Specifications.....	2	2
Civil Engr., 19—Highway Engr.	2	2

*COURSES IN CIVIL ENGINEERING.**Surveying and Geodesy.*

1. *Surveying.* An elementary course including use and care of surveying instruments and the methods of making land surveys; measuring angles with the transit; leveling for profiles; establishing a meridian with solar compass or solar attachment. *Two hours, throughout the year. 9:55 Monday, Tuesday,*

2. *Surveying Field Work.* The practical adjustment of surveying instruments; the proper method of keeping clear field notes, and the working of field problems with chain, tape, level, plane table, transit, compass, etc. The work in the drawing room consists of platting the field notes and making profiles and maps. *Six periods, throughout the year.* Course 1 to be taken concurrently. 2:00-4:30 Wednesday, Thursday, Friday; 8:30-11:00 Saturday.

3. *Higher Surveying.* Topographical surveys with plane table and stadia, city surveys, mine surveys, measurement of base lines, determination of meridian and latitude. *Three hours field work and one lecture period per week.* Prerequisites, Courses 1 and 2.

Railroad Engineering.

4. *Railroad Engineering.* A course including the theory of curves, switches and sidings; the making of reconnoissances, and preliminary and location surveys; the computation of earthwork and determination of structures, and making final estimates of cost. *Two hours, first semester.* 9:55 Tuesday, Thursday. Prerequisites, Courses 1 and 2.

5. *Railroad Engineering Field and Office Work.* Practice in laying out curves, and making complete surveys for a short line of railway and doing the office work. *Eight periods, first semester.* 1:05-4:30 Monday, Tuesday.

Course 5 must be taken concurrently.

6. *Economics of Railway Location.* The influence of grades, curves, tunnels, rise and fall, etc., is studied with regard to effect upon cost and operating expenses of steam and street railways. *Two hours, second semester.* 9:55 Tuesday, Thursday. Prerequisite, Course 4.

7. *Analytical Mechanics.* The mathematical treatment of statics, kinematics and dynamics, including determination of center of gravity, moment of inertia, centrifugal force, etc. *Three hours, first semester; two hours, second semester.* Prerequisite, Mathematics 8 and 9. 10:50 Monday, Wednesday, Friday, first semester; Wednesday, Friday, second semester.

8. *Mechanics of Materials.* A mathematical course in resistance and elasticity of materials, stresses and strains, shearing, flexure, beams, columns, shafts. *Two hours, first semester; three*

hours, second semester. Course 7 must be taken concurrently. 10:50 Thursday, Friday, first semester; Monday, Tuesday, Thursday, second semester.

9. *Hydraulics*. Hydraulic pressure, strength of pipes, flow of liquids through pipes and orifices and over weirs, losses of head, flow of water in open channels, dams of masonry and earth, hydraulic motors and machinery. *Three hours, second semester*. 8:55 Monday, Wednesday, Friday. Prerequisite, Course 8.

10. *Irrigation Engineering*. Diversion, conveyance and application of water for irrigation. Design of reservoirs, dams, and diversion works. *One hour, first semester*. Prerequisite, Course 9.

11. *Water Supply*. Determination of quantity and quality of supply, water purification, and conservation, design of a system. *Two hours, first semester*. Prerequisite, Course 9.

12. *Sanitary Engineering*. Drainage of buildings, treatment and disposal of sewage, sewer systems for cities. *Two hours, first semester*. Prerequisite, Course 9.

Engineering Construction.

13. *Materials of Engineering*. A study of the manufacture and properties of stones, cements, concretes, timber, iron, steel, etc., with special attention to determination of safe working stresses. *Three hours, first semester*. 8:00 Monday, Wednesday, Friday.

14. *Foundations*. The foundation of bridges and buildings, coffer dams, piers, pile-driving, caissons, masonry and reinforced concrete arches, retaining wall. *Two hours, first semester*. Prerequisite, Course 8.

15. *Graphical Statics*. The graphical determination of the stresses in engineering structures. *Three periods, first semester* 9:55 Monday, 1:05-3:50 Thursday. Course 7 must be taken concurrently.

16. *Stresses in Framed Structures and Arches*. The analytical and graphical methods applied to determining stresses in roof and bridge trusses, and masonry arches. *Three periods, second semester*. 9:55 Monday, Wednesday, Friday. Prerequisite, Course 15.

17. *Engineering Laboratory.* Testing of engineering materials. *Three periods, first semester.* Prerequisite, Course 14.

18. *Structural Design.* Theory for and practice of making complete designs for steel bridges, roofs, and other structures. Lectures, drawing and computing. *One hour lecture, four hours draughting throughout the year.* Prerequisite, Courses 8, 13 and 16.

19. *Highway Engineering.* Roads and streets of broken stone, paved and oiled roads, location of new roads. *Two hours, second semester.*

20. *Tunneling and Mining.* Excavation, lining, ventilation and drainage of tunnels and mines; sinking shafts, pumping and hoisting. *One hour, second semester.* Prerequisite, Course 11.

21. *Reinforced Concrete.* Theory, design and construction of concrete and reinforced concrete structures. *Two periods, second semester.* Prerequisites, Courses 7 and 8.

22. *Contracts and Specifications.* A synopsis of the law of contracts as applied to Engineering construction and a study of typical contracts and specifications. The course includes riparian rights, boundary lines, survey descriptions, etc. *Two hours, second semester.*

23. *Thesis.* A study of some special engineering problem or an independent investigation by the student. The subject must be approved by the professor in charge of the department of Civil Engineering and by the professor who would have immediate direction of the work proposed, not later than November 1st of the Senior year. It must be completed and submitted by June 1st of the same year. *One hour, first semester.*

ELECTRICAL ENGINEERING.

Professor Arthur W. Nye.

Assistant Professor J. C. Gaylord.

The courses offered in this department are designed to fit young men to engage in the operation and production of electrical apparatus, also in the application of electricity to the Arts and Sciences.

During the Freshman and Sophomore years there is laid a

broad foundation, consisting of Physics, Mechanics, Chemistry, Surveying and Language. During the Junior and Senior years special studies in electricity and applied electricity are pursued. These involve the theory of electricity and magnetism, with application to direct current machines and measuring instruments, the theory of alternating currents and alternating machinery and apparatus, comprising alternators, synchronous and induction motors and rotary convertors. Courses are also given in Electrical Distribution and Transmission, Lighting and Power plants.

The work of the Engineering Laboratories is co-ordinate with the lecture and class room and aims to give a practical knowledge of electrical measurements and the handling of electrical machinery.

Southern California, in its present state of rapid development, offers exceptional opportunity to the hydraulic and electrical engineer. The work of the University is splendidly supplemented by the large amount of work under construction. The engineers and superintendents in charge of these have been very courteous in aiding the classes on their various trips of inspection. The various power and electric plants in and about Los Angeles afford excellent examples of electric development of high tension and power transmission not surpassed by any other in the United States. Various excursions to these plants and lectures by superintending engineers are some of the features enjoyed by the students of this department.

REQUIRED COURSE IN ELECTRICAL ENGINEERING.

FIRST YEAR.

<i>First Semester.</i>	Lab. Hours.	Class Hours.
Math., 4, 5—Algebra, Trig.....	---	5
Engr. Drawing, 1	6	---
Chemistry, 2—Qual. Anal.....	---	3
Chemistry, 2a	6	---
English, A 1	---	3
Civil Engr., 1—Surveying, Theory	---	2
Civil Engr., 2—Surveying, Field	6	---

Second Semester.

	Lab. Hours.	Class Hours.
Math., 6—Analytical Geometry	---	5
Engr. Drawing, 2.....	6	---
Chemistry, 3	---	3
Chemistry, 3a	6	---
English, A 1	---	3
Civil Engr., 1	---	2
Civil Engr., 2	6	---

*SECOND YEAR.**First Semester.*

French or Spanish	---	5
Physics, 1—Elec. and Heat.....	3	3
Math., 8—Calculus	---	3
Engr. Draw., 3—Descrip. Geom.....	4	1
Physics, 4—Shop	4	---
Civil Engr., 13—Materials	---	3

Second Semester.

French or Spanish	---	5
Physics, 2—Mech. and Light.....	3	3
Math., 9—Int. Calculus	---	3
Elect. Engr., 11—Shop	---	3
Physics, 4—Shop	4	---
Physics, 5—Electricity	---	2

*THIRD YEAR.**First Semester.*

Elect. Engr., 1—General	---	5
Physics, 6—Elect. Measurements	6	---
Civil Engr., 7—Anal. Mech.	---	3
Civil Engr., 8—Mech. of Mater.....	---	2
Physics, 9—Mechanism	---	2
Elect. Engr., 4—Thermodynamics	---	3

Second Semester.

Elect. Engr., 1	5
Elect. Engr., 2—Dynamo Lab.	6
Civil Engr., 7	2
Civil Engr., 8	3
Elect. Engr., 5—Steam Engr.	2
Elect. Engr., 6—Excursions	3
Engr. Drawing, 4—Mach. Design.....	3 2

*FOURTH YEAR.**First Semester.*

Elect. Engr., 3—Alter. Currents	5
Elect. Engr., 7—Dyn. Lab., A. C. Mach.....	6
Elect. Engr., 8—Elect. Design	3 2
Economics, 1	3
Elect. Engr., 9—Engr. Lab.	3
Elect. Engr., 12—Thesis	3

Second Semester.

Elect. Engr., 3	5
Elect. Engr., 7	9
Elect. Engr., 6—Excursions	3
Elect. Engr., 10—Commercial Elect. Engr.....	2
Economics, 2	3
Civil Engr., 9—Hydraulics	3
Elect. Engr., 12	3

COURSES IN ELECTRICAL ENGINEERING.

1. *Dynamo Electric Machinery.* This course comprises a study of the theory and operation of direct current apparatus of all kinds, motors, generators, power plant installations, transmission lines, storage batteries, lamps, controllers, etc., methods of testing and operation, theory of commutation and speed control. Alternating currents are taken up briefly towards the end of the year. Junior Year. *Five hours, both semesters...* 8:55 Monday, Tuesday, Wednesday, Thursday, Friday. (Nye, Gaylord.)

2. *Dynamo Laboratory.* Study is made of the performance of direct current machines by means of their characteristic

curves; efficiency, regulation and heat tests are run; and various methods of operating generators and motors and their auxiliary control apparatus are studied. Junior Year. Six periods. *Second semester.* 1:05-3:50 Monday, Tuesday. (Gaylord.)

3. *Alternating Currents.* A mathematical study of theory and applications to generating, transforming, utilizing machines. Senior Year. *Five hours, both semesters.* 10:50 Monday, Tuesday, Wednesday, Thursday, Friday. (Gaylord, Nye.)

4. *Steam Engineering.* Boilers, combustion, fuels, laws of gases and heat conduction, corrosion and scale, testing, flow of steam in pipes, etc. Practical apparatus as used in steam power plants. Thermodynamics, expansion of gases, heat cycles, temperature-entropy diagrams and pressure volume diagrams applied to gas, hot air and steam engines. *Three hours, first semester.* 8:00 Monday, Wednesday, Friday. (Nye.)

5. *Steam Engineering.* A study of various types of steam engines, indicator cards, valve motions and diagrams, multiple expansion, design of parts. General layout of plants. *Two hours, second semester.* 9:55 Monday, Wednesday. (Nye.)

6. *Excursions.* Trips to various power plants and factories with a view to observing methods and processes. Written reports required of students.

7. *Dynamo Laboratory.* Tests and study of alternating current apparatus. Senior Year. Six periods. *Both semesters.* (Gaylord.)

8. *Electrical Design.* Study of types of electrical machinery; calculations and detail drawings. Senior Year. *Two periods class, three periods drafting.* *First semester* (Gaylord.)

9. *Engineering Laboratory.* Testing of strength of materials, engine and boiler efficiencies, etc. Senior Year. *Three periods.*

10. *Transmission and Station Equipment.* A study of commercial problems of electric power generation and distribution, and of standard polyphase machinery. *Two hours, second semester.*

11. *Workshop Mechanics.* A consideration of the materials of machine construction, the methods of working them and workshop appliances. *Lectures*, no credits, but required of all graduates in Electrical Engineering. (Nye, Gaylord.)

12. *Thesis.* Original investigation and study of some special problem.

MINING AND CHEMICAL ENGINEERING.

Professor Laird J. Stabler.

The University is at present offering two years of the course in Mining and Chemical Engineering. The work, as outlined, gives thorough training in the fundamental subjects of mathematics, chemistry, physics, drawing and the elements of engineering. The foundation laid in the two years prepares the student to enter any of the good mining colleges, and complete the work of the Junior and Senior years, specializing in Mining and Metallurgy.

COURSES IN MINING OR CHEMICAL ENGINEERING.

Freshman Year.

	First. Semester.	Second Semester.
Math., 4, 5, 6.....	5	5
Chem., 2, 2a, 3, 3a.....	5	5
Civil Engineering, 1.....	2	2
Civil Engineering 2 (Field Work)	3	3
Engineering Drawing, 1, 2.....	4	4

Sophomore Year.

Math., 8, 9 (Calculus).....	4	4
Geology, 3—Mineralogy	2	2
Eng. Drawing, 3—Descriptive Geom.....	1	1
Eng. Drawing, 3	4	4
Physics, 1, 2	4	4
Chemistry, 4, 8	4	4

SUMMER SESSION OF 1909

COLLEGE OF LIBERAL ARTS

The Summer Session of the University for 1909 was held at the College of Liberal Arts, Monday, June 28th, to Saturday, August 7th.

Courses in the Summer School are designed to meet the needs of the following classes of students:

1. Undergraduates and graduates of a College or University.
2. Teachers, including those in public schools, private schools and other institutions of learning.
3. Auditors, those desiring to hear courses of lectures or occasional lectures (not for credit).
4. Preparatory and Special Students who are deficient in entrance credits or who wish to make a study of some particular subject.

For entrance no formal examinations are required. Students will be admitted to such courses only as their previous training has prepared them to pursue profitably.

Opportunity will be given those who are compelled to enter late to make up their work.

Instruction will be given by the regular members of the University faculty and by special lecturers from other institutions. The University library, and the physical and biological laboratories, with their new equipment, are open to the students in the Summer School.

Los Angeles enjoys, during the summer months, an equable climate of pleasant days and cool nights, affording a rare opportunity of combining recreation and study. Attractive mountain, beach and island resorts are within a few hours of the city by electric car lines.

*COURSES OF INSTRUCTION, SUMMER SESSION 1909.**DEPARTMENT OF BIOLOGY.**Professor Ulrey.**Assistant Professor Life.*

1. General Botany (College).
2. General Zoology (College).
3. Systematic Botany.
4. Systematic Zoology.
5. General Botany (Preparatory).
6. Special Courses (for making up deficiencies in Botany and Zoology).

*DEPARTMENT OF CHEMISTRY.**Professor Stabler.*

1. Elementary Chemistry.
2. Qualitative Analysis.
3. Organic Chemistry.

*DEPARTMENT OF ENGLISH.**Professor Dixon.*

1. The History of the English Language.
2. Tennyson's In Memoriam.

*DEPARTMENT OF FRENCH.**Professor Von Fingerlin.*

1. Elementary French.
2. Modern Authors.
3. Classical French.

*DEPARTMENT OF ECONOMICS AND SOCIOLOGY.**Professor Hunt.*

1. Principles of Economics.
2. Labor Problems.

DEPARTMENT OF GERMAN.

Professor Von Fingerlin.

1. Elementary (Preparatory). Second semester.
2. Modern Stories and Plays (Preparatory). Second semester.
3. Schiller, Drama and Ballads.

DEPARTMENT OF HISTORY.

Professor Knoles.

Professor Dixon.

Professor Hunt.

1. American History (Professor Knoles).
2. Civics (Professor Knoles).
3. Mediaeval History (College) (Professor Knoles).
4. English History in English Literature, with special attention to Shakespeare's plays (Professor Dixon).
5. Political Development of Modern Europe (Professor Hunt).
6. History of California and the Pacific Slope (Professor Hunt).

DEPARTMENT OF ITALIAN.

Professor Von Fingerlin.

1. Elementary Italian.
2. Modern Authors.
3. Classical Italian.

DEPARTMENT OF LATIN.

Assistant Professor Willett.

1. Elementary Latin (2d semester).
2. Caesar (1st semester).
3. Caesar (2d semester).
4. Cicero's de Senectute and Horace's Epodes.
5. Latin Comedy.

*DEPARTMENT OF MATHEMATICS.**Professor Arnold.*

1. Elementary Algebra.
2. Advanced Algebra.
3. Geometry.
4. Trigonometry.
5. Analytical Geometry.

*DEPARTMENT OF PHYSICS AND ENGINEERING.**Professor Nye.*

1. Elementary Physics (Preparatory) 1st semester.
2. Elementary Physics (Preparatory) 2d semester.
3. General Physics, Electricity and Heat.
4. General Physics, Mechanics and Light.
5. General Physics, Advanced Mechanics.
6. General Physics, Advanced Electricity.
7. General Physics, Teacher's Course.
8. Electrical Engineering.
9. Elementary Mechanical Drawing.
10. Engineering Drawing (1st semester).
11. Engineering Drawing (2d semester).

*DEPARTMENT OF PHILOSOPHY AND EDUCATION.**Professor Hoose.*

1. Psychology. The nature and forms of mental activities.
2. Education. Principles of teaching and school management.

*DEPARTMENT OF SPANISH.**Lecturer Glen H. Spangler.*

1. Elementary Spanish.
2. Advanced Spanish.
3. Survey of Spanish Literature.

COLLEGE OF PHYSICIANS AND SURGEONS

CALENDAR

1910.

September 14, 15, 16.....	Examination for Entrance and Advanced Standing in the Session of 1910-1911.
September 19.....	First Semester begins (Session of 1910-1911.
November 24, 25.....	Thanksgiving Vacation.
December 23.....	Christmas Vacation begins.

1911.

January 2.....	Second Semester begins.
February 22.....	Washington's Birthday.
May 22.....	Final Examinations begin.
June 15.....	Commencement.

THE COLLEGE OF PHYSICIANS AND SURGEONS.

In 1885 the Trustees of the University of Southern California empowered one of their members, Dr. J. P. Widney, to take steps toward the organization of a Department of Medicine. That year the medical school was founded, and in the Fall instruction was offered in limited quarters on Aliso street. From the beginning the aim has been to raise the standard of medical education, and in this connection it is of interest that this institution was among the first to adopt a three-year course.

Ten years after its organization the Medical Department came into possession of more extensive quarters on Buena Vista Street, and in these buildings instruction was carried on until June, 1909. In August of 1909 the College of Physicians and Surgeons consolidated with the University of Southern California, and the work of the Medical Department is now being carried on at 516 East Washington Street.

The College of Physicians and Surgeons was founded in 1904. Its main building, consisting of three stories, is commodious and equipped with modern appliances and apparatus. The policy of the College of Physicians and Surgeons has been characterized by thoroughness of method and by an attempt to place medical education upon a higher plane.

The Trustees of the University of Southern California and of the College of Physicians and Surgeons felt that by combining their resources, clinical facilities and teaching staffs, a broader and more thorough training would be possible than could be offered by either institution alone, and that by their coalescence the best ends of medical instruction in Southern California would be furthered.

The College of Physicians and Surgeons is an integral part of the University of Southern California. Its government is vested in the Board of Trustees of the University and in the Judicial Council and Senior Faculty of the Medical Department, as provided in the articles of incorporation of the University.

ADMISSION REQUIREMENTS

ADMISSION TO FRESHMAN CLASS.

Men and women are admitted on equal terms.

Requirements for admission are as follows:

(a) A Bachelor's Degree in Arts or Science from an approved college.

(b) A diploma from an accredited high school, normal school or academy, whose course extends over four years, embracing not less than two points (two years) of Latin, two points (two years) of English, one point (one year) of History, one point (one year) of Physics, one point (one year) of Inorganic Chemistry, and six further credits in Science, Language, Literature or History, making a total of fifteen points.

A student may be allowed to enter the Freshman class with not more than three points of conditions. These conditions may be made up of either required or optional subjects.

Should a candidate for entrance to the Freshman class be unable to present credentials in the subjects above enumerated,

it will be necessary to take an examination conducted by an appointee of the California State Board of Medical Examiners. A representative of the Board resides in Los Angeles and is prepared at any time to examine a non-accredited candidate for admission.

The credits required for matriculation are as follows:

A. REQUIRED: (16 Points).	Points.
Mathematics—(minimum, 2 years; maximum, 3 years).....	4
Algebra and Plane Geometry.	
English—(minimum, 2 years; maximum, 4 years).....	4
(a) English Grammar;	
(b) Rhetoric and Composition.	
Latin—(minimum, 2 years; maximum, 4 years).....	4
(a) Latin Grammar;	
(b) Latin Prose Composition;	
(c) Reading four books of Caesar or equivalent.	
Physics—(1 year)	2
With laboratory work.	
History—(minimum, 1 year; maximum, 3 years).....	2
Including Civics and Political Economy.	
Total required	16
B. OPTIONAL: (14 Points).	
English Language and Literature—(2 years).....	4
Only if taken after the required English.	
Language—German, French, Spanish or Greek (4 years).....	2
Not less than one year in any one.	
Advanced Mathematics—Solid Geometry and Trigonometry (one-half year each).....	1
Natural Science (1 year).....	2
Biology, 1 year, or Botany and Zoology, one-half year each.	
Physical Science—(1 year)	2
Chemistry.	
Earth Science	1
Physical Geography and Geology, one-half year each.	
Physiology and Hygiene (one-half year).....	1
Astronomy (one-half year)	1
Drawing (one-half year)	1

The requirements for admission to the Freshman class of the College of Physicians and Surgeons may be changed from year to year.

REQUIREMENTS FOR ADMISSION TO ADVANCED CLASSES.

A student who has matriculated in an accredited medical school, and completed satisfactorily the prescribed course of study, may be admitted to the succeeding year of the Department of Medicine, U. S. C. Each applicant for advanced standing is considered upon his or her merits.

COURSE IN MEDICINE.

The required period of study for the degree of Doctor of Medicine is four years of thirty-six weeks each. The Freshman and Sophomore years are given Histology, Osteology, Comparative Anatomy, Anatomy, Physiology, Chemistry, Embryology, Pharmacology, Pathology, Bacteriology, Materia Medica and Therapeutics, while the Junior and Senior years are devoted largely to the clinical branches of medicine.

Instruction is given by lectures, recitations, conferences, laboratory work, demonstrations, dispensary clinics and hospital clinics, both medical and surgical.

During the Senior year optional courses are offered so as to allow the student to give special attention to some branch in which he may wish to specialize.

BUILDINGS AND EQUIPMENT.

Instruction in some of the branches of the first two years is given in the College of Liberal Arts on the University campus. It is the intention of the Trustees of the University to offer the entire work of the Freshman and Sophomore years on the quadrangle as soon as the necessary arrangements can be concluded.

The main building of the Department of Medicine, the College of Physicians and Surgeons, is situated on East Washington Street, between the University Campus and the business center of the city, and is readily accessible to the University and to different parts of Los Angeles.

Many special features are contained in the main medical buildings, such as apparatus for forcing cool and pure air into each room, storage tanks for anatomical material, and a clay-modeling room. The building was erected in 1904, and not only contains modern conveniences and appliances, but also the newer models of scientific apparatus.

LABORATORY FACILITIES.

The College of Physicians and Surgeons lays emphasis upon the thoroughness of its laboratory instruction.

The laboratories are new and the equipment is extensive and modern.

LIBRARY FACILITIES.

The University Library is well supplied with reference works in Embryology, Histology, Physiology and Morphology.

The Los Angeles City Library contains complete sets of many scientific journals, especially those pertaining to Biology and Chemistry.

The Barlow Medical Library was established in 1906 by Dr. Jarvis Barlow, formerly a Professor of Clinical Medicine in the University of Southern California. Dr. Barlow presented the library building "to the medical profession of the great Southwest." A large and constantly increasing number of medical volumes is now housed conveniently in this Library, thanks to the generosity and support of the physicians of Southern California.

CLINICAL OPPORTUNITIES.

The clinics, which are open each afternoon to the Juniors and Seniors, afford more material than can be used to advantage. The clinics are held each afternoon from 1 to 2 P. M. in the College Building. The location brings a superior class of clinical material—a class which the student can use to most advantage, especially in obtaining an accurate history of the case. A down town clinic is being established, which will make the clinical facilities second to those of no other college in the country.

In addition to the clinics held in the medical buildings of the University, the different professors conduct clinics in the County Hospital, which is an institution of 400 beds. The County Hospital affords ample opportunities in the medical, surgical, gynecological, obstetrical, eye, ear, nose, throat, genito-urinary and dermatological departments.

Various members of the faculty are interested in private hospitals, and students frequently have rare opportunities for witnessing and assisting at operations.

HOSPITAL INTERNSHIPS.

Internships and appointments in hospitals of Los Angeles and surrounding cities are available to graduates of the College of Physicians and Surgeons.

In this connection it is of interest to note that for many years there have been more positions of this kind open to appointment than there have been graduates to fill them.

PRIZES

The Faculty will give a prize to the member of the Freshman, Sophomore, Junior and Senior classes who obtains the highest general average in the final examinations upon the studies of that year.

Professor Charles W. Bryson will present at Commencement Exercises a prize to the member of the Graduating Class obtaining the highest general average in attendance and general proficiency as shown in the finals in Gynecology and Abdominal Surgery.

Professor James H. Seymour will present at Commencement Exercises a prize to the member of the Graduating Class obtaining the highest general average in attendance and general proficiency as shown in the finals in Surgery.

Associate Professor W. Harriman Jones will present at Commencement Exercises a prize to the member of the Junior Class obtaining the highest general average in attendance and general proficiency as shown in the finals in Gynecology.

COURSES PRELIMINARY TO THE STUDY OF MEDICINE.

Candidates who are not qualified for admission to the Department of Medicine, upon matriculation at the College of Liberal Arts of the University, may elect courses especially designed for those who plan to study medicine. These courses include Physics, Inorganic and Organic Chemistry, Zoology, Botany, Embryology, Bionomics, and should give the student that grasp on fundamental branches which is essential for a proper undertaking of the medical course.

COMBINED SIX YEAR COURSE FOR DEGREE OF A. B. AND M. D.

Students who have matriculated in the College of Liberal Arts of the University and who plan to study medicine, may so combine the four-year course for the A. B. degree with the four-year course for the M. D. degree as to take both degrees in six years.

COMBINED COURSE FOR THE DEGREE OF A. M. AND M. D.

Students holding the A. B. degree from recognized colleges and who enter the Freshman class of the College of Physicians and Surgeons, may matriculate at the Graduate School of the University, thus becoming candidates for the M. A. degree. Registration at the Graduate School may be made any time before the opening of Junior year. The candidate pursues advanced study along some special line and submits a thesis embodying original research. The degree of Master of Arts is given to the candidate upon the completion of the requirements for the advanced degree.

FEES AND EXPENSES

Matriculation Fee (paid but once)	\$ 5.00
Tuition Fee (payable in advance), per year.....	150.00
Final Examination Fee (not returnable).....	25.00

A deposit of \$10.00 is required of all students to cover breakage and damage to buildings and equipment. The unexpended balance is refunded at the close of the year.

A rental of \$5.00 for microscope and \$2.00 for immersion lens is charged each year for their use in Histology, Embryology, Bacteriology, Microscopy and Pathology. The student will be charged for all breakage in any of the laboratories.

These fees are payable in advance each year. If not paid within four weeks of the beginning of the course, the right to attend lectures may be forfeited, and no student will be permitted to take an examination who is in arrears for fees, and no advanced standing whatever will be given a student under such conditions.

For further information address

CHARLES W. BRYSON, A.B., M.D., Dean
402-403 Delta Building,
Los Angeles, California.

DEPARTMENTS OF INSTRUCTION

ANATOMY.

Robert Henry Burton, M.D.,
Associate Professor of Anatomy and Demonstrator of Anatomy.

Raphael Burke Durfee, M.D.,
Associate Professor of Anatomy.

Henry Michael Rooney, A.B., M.D.,
Associate Professor of Anatomy.

John C. Ferbert, M.D.,
Associate Professor of Surgical Anatomy.

Ralph Louis Byron, M.D.,
Lecturer on Osteology.

Clarence Holmes Criley, Ph.B., M. D.,
Instructor in Anatomy.

The study of Anatomy is divided into seven courses and extends throughout the entire four years of college work. The laboratories and dissecting room are well equipped, and an abundance of working material is assured.

Course I. Practical Anatomy. Each student of the first and second year is required to dissect the entire lateral half of the body in three parts, during which he is assisted and quizzed by the instructors. When the student has finished a part, he must show suitable drawings made from his work and pass an examination before allowed to begin his next part. Three hundred and sixty hours.

Course II. Bones, Joints and Ligaments, and two recitations a week for first year students. Sixty hours.

The bones are studied individually and collectively, the students pointing out and describing the different parts from actual specimens. Bones are loaned the students for private study.

Course III. Muscles, Vessels, and the Viscera. This course extends throughout the first year, including one hundred and

eighty hours of recitation work, with special demonstrations on the cadaver.

Course IV. The Nervous System, Special Senses, and the Reproductive Organs are taken up in the second year. Two recitations a week, with drawings of the part studied. Eighty hours.

Course V. Embryology. Two recitations and two laboratory hours per week throughout the Sophomore year. The lecture course will embrace a comparative study of reproduction in the animal kingdom. Cell reproduction, fertilization, maturization, formation of gastrula, the ovum, implantation, etc., the relationship and structure of the foetal envelope, will be thoroughly considered.

The Laboratory Course will consist of drawings, with full descriptive notes and examinations of sections of embryo of the pig, chick, etc., in the various stages of development.

Course VI. Comparative Anatomy. One lecture a week through the Sophomore year.

A course of lectures, illustrated copiously with osteological material and preserved specimens.

Structure is the servant of function. The effort is made in the course to point out the way in which the physiological functions common to all animals are provided for in the structure of type forms from among the lower animals. It is planned thus to give a broader conception of the living animal body, the zoological characteristics of the human species and the biological forces that have brought about the present peculiarities of form.

Course VII. Surgical Applied Anatomy and Operative Surgery on the cadaver will be taught in the third year. Forty hours.

Text Books:—Anatomy: Cunningham & Cunningham's Dissector. Embryology: Heisler.

For Reference:—Piersol; Morris; Gray, and Treves.

HISTOLOGY.

*Ethel Langdon Leonard, B.S., M.D.,
Associate Professor of Histology.*

Six hours a week throughout the Freshman year is given to the subject of Histology. The work is divided into two courses.

Course I. Elementary Histology is given the first of the Freshman year. The study of fresh tissues, those which have been disassociated, is first given to the student. Fixed and hardened tissues are next studied. All the elementary tissues of the body, including normal blood, are studied. The student is required to make sketches and colored drawings of all the specimens studied.

Course II. The work of the second semester is devoted to the study of the organs of the human body. Rapid methods of fixing and hardening tissues are discussed, and every technical detail of the work of preparing tissues for microscopical study is demonstrated and discussed. Quizzes, written reviews and practical tests are given to the class at frequent intervals throughout the year.

Text Books recommended for study: Bailey's Histology; Clarkson's Text Book of Histology; Quain's Anatomy; Sczymowicz & MacCallum, Microscopical Histology.

CHEMISTRY.

Lyman Brumbaugh Stookey, A.M., Ph.D.,
Professor of Chemistry.

Alanson Halden Jones, A.M., M.D.,
Instructor in Chemistry.

Course I. General Inorganic Chemistry. (First year students.)

Two hours lectures, six hours laboratory, and two hours recitations during the first half of the first semester.

Those phases of Inorganic Chemistry are considered which are necessary for a thorough understanding of chemical principles. Those aspects of physics which are required to give a thorough view of the constitution of matter, the element particle and its behavior, also the newer physics sufficient to make plain the subject of ionization are treated. The laboratory exercises are representative in character. The needs of the medical student are kept in mind. Most time is given to those elements whose compounds later will be his chief study.

Course II. Some Applications of Physical Chemistry to Physiology. (First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the first semester.

Among the subjects discussed are: Theory of solution, the properties of dissolved substances, osmotic pressure, concentration law, catalysis, mass action, ionization, thermo-chemical change, colloidal state, some reactions which go on in living matter, the physico-chemical organization of the cell.

Course III. Special Methods of Quantitative Analysis.
(First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the first semester.

Those quantitative methods, both volumetric and gravimetric, are taken up which have an application in practical medicine.

Course IV. General Organic Chemistry. (First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the second semester

The laboratory exercises embrace a study of the aliphatic derivatives, the carbocyclic and heterocyclic compounds, and a synthesis of some typical substances. Ultimate analysis of organic compounds, derivation of formulae, methods of substitution and of addition are treated. While the principles of the subject are considered from the standpoint of pure chemistry, the examples, illustrations and laboratory exercises deal with methods and with compounds required in practical medicine.

Course V. Toxicological Chemistry. (First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the second semester

The object of this course is to acquaint the student with the more common volatile, alkaloidal and metallic poisons, and the methods employed in toxicological analysis.

Course VI. Advanced Toxicological Chemistry. (Elective.)

Two hours second semester alternate years.

The aim of this course is to afford an opportunity to acquire a more thorough knowledge of toxicology than is possible in the elementary required course. The student is drilled in quantita-

tive methods employed in toxicological analysis. Alleged blood stains are examined. To receive credit for this course each student must report satisfactorily on six poisoned animals submitted to him for toxicological analysis.

Course VII. Chemistry of Carbohydrates, Fats and Proteins.
(First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the second semester

This course deals with the chemistry of the common carbohydrates, fats and proteins, including those which occur in the body. In the laboratory the methods for their detection, differentiation and quantitative estimation are taught. The more common cleavage products of the protein molecule are studied.

Course VIII. Analysis of Foods. (Elective.)

Three hours weekly first semester alternate years.

The more common methods employed in the analysis of foods are taught, emphasis being laid on the more frequently used adulterants and preservatives and their detection.

Course IX. Water Analysis. (Elective.)

Three hours weekly during the second semester.

The student choosing this course is given an opportunity to familiarize himself with the methods used in the chemical analysis of water.

Course X. Pathological Chemistry. (Third year students.)

One hour lecture and one hour recitation during the second semester.

The following subjects are discussed: Inorganic salts in disease, calcification, concretions and incrustations, uraemia, eclampsia, intestinal putrefactive processes including auto-intoxication, Ptomaines, benign and malignant tumors, phytotoxins, zootoxins, retrogressive processes, pathological pigmentation, chemical defenses of the body against disease.

Course XI. Pathological Chemistry. (Elective.)

Two hours weekly during first semester, alternate years.

In this course the student is drilled in laboratory diagnosis. Opportunity is offered to examine pathological stomach contents, blood, urine, faeces, exudates, concretions, cerebrospinal fluid, and other available material with reference to diagnosis.

Course XII. Chemical Conference. (Elective.)

Those who are interested are invited at times to be announced to discuss informally selected problems in medical chemistry, usually such as supplement instruction given in other ways. Problems under investigation in the laboratory are introduced for discussion.

PHYSIOLOGY.

*Lyman Brumbaugh Stookey, A.M., Ph.D.,
Professor of Physiology.*

*Alanson Halden Jones, A.M., M.D.,
Instructor in Physiology.*

Instruction in this department is given by lectures, laboratory exercises, demonstrations and recitations. The laboratory exercises enable the student to acquire a direct acquaintance with experimental methods. The chief ends sought in the laboratory exercises are precision in conducting experiments, accuracy in observation and logic in deduction.

Formal written examinations in each course of this department are held at frequent intervals. These tests are invaluable in the cultivation of a clear and concise expression of thought.

The assistantships in this department are honor positions and are awarded according to scholarship and fitness.

Course I. Physiology of the Cell. (First year students.)

Three hours lectures, four hours laboratory and two hours recitations during the first half of the first semester.

The cell is studied as an elementary organism, emphasis being laid on it as the seat of vital processes. Special attention is given to the structure and chemistry of protoplasm, chemical reactions in the cell, irritability, contractility, tropisms, development of multicellular from unicellular organisms.

*Course II. Physiology of Muscle and Nerve.
(First year students.)*

Three hours lectures, four hours laboratory and two hours recitations during the second half of the first semester.

Kymographical records are made by each student. The lab-

oratory exercises include a study of the following: Mechanical, thermal, chemical and electrical stimulation of muscle and nerve, indirect and direct stimulation of muscle, changes in intensity of stimulus, minimal and maximal stimuli, influence of duration of stimulus, laws of contraction, natural tetanus, artificial tetanus, elasticity and extensibility of muscle, influence of temperature and load on muscular contraction, contraction of human muscle, ergograph, electrotonus, fatigue of muscle, fatigue of nerve, muscle currents, nerve currents, velocity of nerve impulse, conditions affecting excitability of nerve.

Course III. Physiology of Circulation, Blood and Lymph.

(First year students.)

Three hours lectures, four hours laboratory and two hours recitations during the first half of the second semester.

Graphical records are kept by each student. Most of the experiments are carried out on the frog's heart. Among the topics studied in the laboratory are: Stair-case character of heart-beats, cardio-inhibitory center, latent period of cardiac muscle, effect of vagus on heart, action of atropin, muscarin, pilocarpin and nicotin on heart, constant current on heart, perfusion of fluids through the heart, endocardiac pressure, action of the heart valves, reflex inhibition of the heart, sphygmograph, blood pressure in different parts of the vascular system, red cell count, white cell count, differential count, colorimetric estimation of haemoglobin, spectroscopical examination of haemoglobin and its derivatives, haemorrhage and regeneration, coagulation.

Course IV. Physiology of Respiration, Reproduction, Animal Heat. (First year students.)

Three hours lectures, four hours laboratory and two hours recitations during the second half of the second semester.

The laboratory exercises embrace a study of the following: Movements of the chest wall, vital capacity, respiratory waves of blood pressure, variations of intrathoracic pressure, gases of the blood, reflex stimulation of respiratory center, relation of afferent fibers of vagi to respiratory center, respiratory quotient and its variations, modified respiratory movements, calorimetry.

Course V. Physiology of Digestion, Absorption, Secretion, Excretion and Metabolism. (Second year students.)

Two hours lectures, six hours laboratory and one hour recitations during the first semester.

Course VI. General Chemical Physiology.

(Second year students.)

Two hours lectures, six hours laboratory and one hour recitation during the second semester.

This course embraces a study of the chemical changes occurring in the body, the chemical constituents of almost every tissue, and the functions of the constituents of the different tissues.

Course VII. Physiological Action of Drugs (Pharmacology).

(Second year students.)

One hour lecture and one hour demonstration of recitation during both semesters.

This course consists of a study of the changes induced in the living organism by the administration of the more common and important drugs. Laboratory demonstrations supplement the lectures.

Course VIII. Advanced Pharmacology.

(Elective.) Alternate years.

One hour lecture weekly during the first semester.

In this course a study is made of the physiological changes induced in the body by the less frequently used drugs. The relation between chemical constitution and pharmacological action is considered in studying some of the newer synthetical drugs.

Course IX. Physiology of the Central Nervous System and the Sense Organs. (Second year students.)

One hour lecture and one hour laboratory or recitation during the second semester.

During the first semester the class is trained in the anatomy of the brain. During the second semester the physiology of the central nervous system is studied. Emphasis is laid upon reflex action, reaction time, localization of functions in cerebrum, motor and sensory tracts in central nervous system and physiological optics.

Course X. Advanced Physiology. (Elective.) Alternate years.

This course consists of a detailed study of special subjects in Physiology, and includes the reading of original investigations along lines to be assigned, and the performance of laboratory experiments. Each student electing this course is required to carry out a complete metabolism experiment.

Course XI. Operative Physiology. (Elective.) Alternate years.

The object of this course is to acquaint the student with the more common operative procedure in physiological investigation. The following operations are performed on the dog: Gastric, biliary, and pancreatic fistulae, Eck's operation, splenectomy, thyroidectomy, nephrectomy, pancreatotomy, gastroenterostomy, colectomy.

Course XII. Pathological Physiology. (Third year students.)

One hour lecture and one hour recitation during the first semester.

Among the subjects discussed are: Disturbances in the digestive secretions, starvation, overeating, obesity, disturbances in the metabolism of carbohydrates, fats and proteins, qualitative changes in metabolism, production of organic acids, disturbances in the secretion of bile, alkaptonuria, cystinuria, pathological alterations in blood pressure, exudates, metabolism in fever anaemia and other pathological conditions.

Course XIII. Dietetics and Nutrition. (Third year students.)

One hour lecture and one hour recitation during second semester.

The lectures treat the following subjects: Specific dynamic action of the different foods, calorific requirements, construction of a diet from the different articles of food, nitrogenous equilibrium, nutrition during the period of growth, inorganic foods, some mineral waters, accessories to food, influence of mechanical work upon metabolism, diets in some pathological conditions.

Course XIV. Physiological Conference. (Elective.)

Those who are interested are invited to meet at times to be announced to discuss informally selected problems in physiology, usually such as supplement instruction given in other ways. Problems under investigation in the laboratory are introduced for discussion.

Course XV. Original Investigation. (Elective.)

Those who are qualified are encouraged to undertake research work. A reading knowledge of French and German is desirable.

PATHOLOGY.

*Andrew Fremont Wagner, A.M.,
Associate Professor of Pathology.*

The complete course covers a period of considerably over four hundred hours, extending through three full years, viz., Sophomore, Junior, and Senior, and consists of thorough didactic and laboratory work.

The didactic work consists of lectures, recitations and quizzes, with written examinations at stated periods, and the practical work consists of identification, study and drawing of microscopical specimens; the fixing, hardening, sectioning, staining and mounting of pathological tissues; the study of gross specimens, and the performance of autopsies at the County or other hospitals of this city.

The laboratories of the college are supplied with all the necessary equipments for instruction in this important branch of medicine, including a projectoscope, freezing, paraffin, and celloidin microtomes, Bausch and Lomb microscopes, etc., enabling the student to become familiar with all the routine work pertaining to this department.

Five courses are given:

Course I. General Pathology. This course is given to the Sophomore class throughout the entire year, and includes the subjects properly coming under this heading, viz., general causation of disease, circulatory disturbances, degenerations, inflammation, neoplasms, and parasitic diseases.

The didactic work is supplemented in the laboratory by the study of specimens, illustrating the pathologic conditions under discussion at the time in the lecture-room. As one subject after another is taken up systematically, the class is furnished by the department with specimens representing the particular lesions lectured on, which the students are required to study, and of which they make drawings. These drawings are taken into consideration in making up the final credits of each student. At the same time all the pathological material available is used in teaching the student to prepare, cut, stain and mount his own sections.

Course II. Special Pathology. This course is given to the Junior and Senior classes, thus giving the later the benefit of a very thorough review of the whole subject of special pathology as given in the Junior year. The various tissues and organs are taken up in order, and the pathological changes studied under general conditions before are now studied in their new relations and modifications.

Course III. Gross Pathology and Postmortem Work. This course is given to both Junior and Senior students, and consists of identification and study of diseased parts with the naked eye, and the various microscopical staining, and other reactions.

The technique of making autopsies is taught by demonstrations, and opportunity is afforded the students to assist in the performance of the work.

Course IV. Postgraduate Course. This course will be given to postgraduates and other desiring to take up work along special lines in any department of pathology. In such a course may be included the work as outlined in Courses I, II and III, but with such limitations as to detail as will be necessitated by the amount of time available for the course.

Text Books: Stengel; Delafeld and Prudden; Adams; Beattie and Dickson; Ziegler; Wells' Chemical Pathology.

MATERIA MEDICA AND THERAPEUTICS.

*Frederick John Kruell, Ph. G., M.D.,
Professor of Materia Medica and Therapeutics.*

*Reginald S. Petter, M.D.,
Associate Professor of Materia Medica.*

*Edward Douglass Jones, M.D.,
Instructor in Therapeutics.*

Course I. First and second year students will receive instruction in the physical, chemical and pharmaceutical properties of remedial agents, pharmacodynamics, medical pharmacy, and the elements of prescription writing.

Three hours each week will be devoted to the above studies throughout the college year.

Course II. Third and fourth year students are instructed in the principles of therapeutics, applied therapeutics, and advanced prescription writing from a therapeutic standpoint, dietetics, and the therapeutic management of special diseases.

Three hours each week throughout the college year are devoted to the above studies.

Text Books: Hare; Shoemaker; Stevens; Potter; Sollmann.

BACTERIOLOGY.

*Andrew Fremont Wagner, A.M., M.D.,
Associate Professor of Bacteriology.*

*Downing D. Nice, M.D.,
Assistant in Bacteriology.*

This course is given in the second year, and reviewed in the fourth year.

The whole subject of Bacteriology—general and special—is taught by lectures, quizzes, and laboratory instruction throughout the entire year.

The didactic work is thorough and complete, the first half of the course including the classification, physical and chemical structure of the bacteria in general, as well as the products of their biological activities, and particularly the antibodies, the opsonic substances, and the theories of infection and immunity relating to the various pathogenic micro-organisms, while the second half of the course covers the identification, the staining, cultural and other biologic characteristics of the various species of pathogenic bacteria, as well as of the pathogenic protozoa, yeasts and moulds.

The laboratory work is comprehensive, and aims to be as practical as possible. The student is made familiar with approved methods of technique by requiring him to actually perform the work done in bacteriological laboratories, from the preparation of staining fluids and of culture media to the cultivation and inoculation of the different organisms.

The review, by quizzing, of the subject in the Senior year enables the student about to graduate not only to refresh his memory in the details of this important department of the study

of disease, but affords an opportunity of presenting to him any new facts that are liable to be developed from year to year in this rapidly growing subject.

Text Books: Park's Pathogenic Bacteria and Protozoa; Jordan's General Bacteriology; Muir and Ritchie (1907 Edition) and MacFarland's Pathogenic Bacteria.

MEDICINE.

Thompson B. Wright, A.M., M.D.,
Professor of Medicine.

Sylvester Gwaltney, A.M., M.D.,
Professor of Clinical Medicine.

Charles E. Zerfing, M.D.,
Associate Professor of Medicine.

Instructor in the Medical Department.
Edward William Hanlon, M.D.,

Louis Weber, B.S., M.D.,
Instructor in Medicine.

William Elmer Carter, M.D.,
Instructor in Medicine.

Dallas Case Ragland, M.D.,
Laboratory Instructor in the Medical Department.

Course I. During the Junior year a series of didactic lectures will be given, of a thoroughly practical nature, embracing a critical study of internal diseases generally, including diseases caused by parasites, infectious diseases, constitutional diseases, and the diseases grouped according to the organs affected, such as: Diseases of the lungs, heart and arteries, of the liver, of the stomach and intestines, of the pancreas, of the kidneys and spleen and lymphatic system, of the blood and of ductless glands.

Especial attention will be given to the study of etiology, bacteriology, pathological signs and symptoms, diagnosis, prognosis,

and treatment of each disease, and the lectures will be amply followed up and illustrated by patients drawn from the various clinics in connection with the College and County Hospital; also by the use of pathological specimens from the College Museum, and by the use of suitable charts, etc.

The student will be given special instruction in the application of anatomical knowledge to the investigation of the disease, the methods of examining various organs and parts, to detect evidence of disease, the mode of employment of instruments and apparatus used in diagnosis, treatment prescribed, and applied therapeutics.

Course II. The Department of Physical Diagnosis has been incorporated with the Department of Medicine, and instruction in this branch is directly taught by an Associate Professor of Medicine, so that it can be more readily condensed with the other work in the department.

The mode of instruction in this Department of Medicine is based chiefly upon clinical, practical training at the bedside, comprising anamnesis, status presens, pathology, diagnosis and differential diagnosis. In the Junior year practical instruction is given twice a week at the Los Angeles County Hospital two hours each week, and one hour didactic lecture at the College.

For the proper conception of the abundant and interesting clinical material offered the Junior class, a proper training in auscultation and percussion is a condition sine qua non. Cases are brought before the class with a complete history taken by one of the students and then demonstrated and discussed.

During the year each student is required to furnish in writing three complete history reports of patients, and at the end of the year to pass an oral and practical examination at the bedside. This constitutes an essential item in the markings on final examinations.

Course III. During the Junior year clinical microscopy is taught by didactic and socratic instruction at the County Hospital three hours weekly—together with practical demonstrations of the latest and best laboratory methods. This course comprises the most approved methods of examining the urine, chemical and microscopical examination of the blood, sputum and gastric con-

tents, as well as the morbid products and secretions of disease, also the latest methods of serum diagnosis. The hospital service is utilized and the course so arranged that the student may receive the benefit of a personal examination of the patient in connection with laboratory work necessary for the elucidation of the case.

Course IV. The Junior and Senior classes receive systematic instruction in the practice of medicine at the bedside. Ward and observation classes are formed, as these conference classes have proved a success and represent a great improvement over the old method of clinical lectures. Each case is carefully studied by the students, who prepare reports upon that portion of the case to which they have been assigned. These reports are read in class and discussed, after which the professor in charge draws attention to errors and directs the students in correctly interpreting the data collected. The conference closes with a brief review, during which important points are accentuated and peculiar ones noted.

Most excellent clinical facilities are afforded at the County Hospital with its 400 beds. The recent establishment of a regular visiting staff having absolute charge of the patients, opens up new opportunities for the close study and treatment of disease in this institution. Our students have constant access to the wards, giving them the opportunity to obtain at first hand that knowledge of disease which can only be acquired through intimate contact with the patient.

Each student is required to submit complete case reports on a number of cases during the year.

Course V. The department in tropical medicine, directly under the charge of the professor of clinical medicine, is open to Senior students and comprises one recitation weekly.

Recognizing that a knowledge of natural history is essential to a thorough understanding of the causative factors in the production of tropical diseases, the student is taught to construct analytic outlines of the various parasites and their associated diseases, special attention is given to the etiology, pathology, symptomatology, diagnosis, prognosis and treatment, and the most approved methods of prophylaxis.

During the year clinical instruction in tropical diseases is given at the County Hospital.

Text Books: Diagnosis—Osler; Butler; Anders, Emerson; Boston; Cabot's Diseases of the Blood; Todd's Manual of Clinical Diagnosis; DaCosta.

Practice: Anders; Osler; Tyson; Edwards; Manson; Jackson.

Collateral Reading and Reference: Krehl's Pathological Physiology; Hammarstein's Physiological Chemistry; Cushney's Pharmacology; Potter's Materia Medica and Therapeutics.

OBSTETRICS.

*Walter Sydney Johnson, A.B., M.D.,
Professor of Obstetrics.*

Instruction in Obstetrics is begun in the third year, and is carried on by means of didactic lectures, recitations and demonstrations, upon the manikin and living subject; by the use of charts, wet and dry specimens, models and pelves.

The subject matter during this year embraces the anatomy of the pelvis, physiology, and development of the ovum, normal pregnancy, normal labor and normal puerpery.

Two hours a week are given to lectures and recitations throughout this year.

Lectures and recitations are continued during the fourth year, at which time the complications and difficulties liable to be encountered in the practice of the science and art of obstetrics are successively considered, viz., abnormal pregnancy, dystocia, and abnormal puerpery.

Special attention is given to asepsis, external palpation, pelvimetry, the use of forceps, and the different obstetric operations.

Students during this year, in addition to the above, are expected to attend one or more cases of labor, under the supervision of the Professor of Obstetrics. The maternity wards of the County Hospital and the many charitable cases coming under the care of this department afford ample material for practical demonstration, thus giving the student a thorough working knowledge of the subject.

Text Books: Williams; Edgar; American Text Book; Hirst; Wright.

SURGERY.

*James Harvey Seymour, M.D.,
Professor of Clinical Surgery.*

*Orville O. Witherbee, M.D.,
Professor of Clinical Surgery.*

*John Jay Still, M.D.,
Associate Professor of Surgery.*

*Charles Worth Norton, M.D.,
Instructor in Minor Surgery.*

This department embraces didactic and clinical instructions and extends through the Junior and Senior years. Five hours a week are devoted to class-room instruction, consisting of a systematic course of lectures and recitations.

In the Junior year the principles underlying surgical procedures and governing surgical diseases, together with a thorough grounding in surgical pathology, are considered. The art of bandaging, the application of surgical dressing and the use of anæsthetics are taught during this year. Clinical instruction is begun by the Junior student and he is given ample opportunity to witness all the major and minor operations.

In the Senior year students are required to attend all surgical clinics, while continuing the course of instruction in general and special surgery. Four hours a week are devoted to clinical lectures at the County Hospital and daily clinics are held at the College Dispensary. Many opportunities are also afforded the Senior class to witness, at close range, operations in the many hospitals with which Los Angeles is so bountifully provided. Every effort indeed is made to familiarize the student with the practical application and modern surgical procedures, to the end that he may be fully equipped to meet any and all emergencies within the domain of surgery.

Text Books: DaCosta; Wyeth; Lexer-Bevan; Scudder's Treatment of Fractures; Stimson on Fractures and Dislocations; Operative Surgery—Bryant; Bickham; Treaves; Minor Surgery—Foote.

GYNECOLOGY AND ABDOMINAL SURGERY.

*Charles William Bryson, A.B., M.D.,
Professor of Gynecology and Abdominal Surgery.*

*William Harriman Jones, A.B., M.D.,
Associate Professor of Gynecology.*

Instruction in this department will be didactic and clinical, comprising lectures, recitations, quizzes, dispensary and hospital clinics, and minor and major operations, before members of the Junior and Senior classes, and will continue throughout the Junior and Senior years. In the Clinical Department students will be divided into small classes, the better to enable them to witness closely the technique of all operations.

Students will be required to examine, diagnose and treat patients in the presence of the professor in charge, in order to become proficient in gynecological diagnosis and treatment. In thus bringing the student in close personal relation with a large number and variety of cases, he familiarizes himself with the different methods of examining patients, and at the same time he becomes accustomed to making diagnoses and formulating treatment, as well as witnessing closely and assisting at all of the minor and major operations in gynecology and abdominal surgery. Diseases of the bladder and urethra will be thoroughly covered in this department and their medical and surgical treatment outlined and demonstrated. Methods of inspection and examination will be taught by the use of charts and manikins, as well as upon the living subjects. The practical manipulation and use of the cystoscope will be shown first upon bladder phantoms, then upon the living subject in the Clinical Department. A thorough theoretical as well as practical knowledge of gynecology and abdominal surgery in its broadest scope is a prerequisite to graduation from this College, and every opportunity will be offered the student to prepare himself for the arduous duties that will come to him in his professional career.

Text Books: Dudley; Gilliam; Montgomery; Ashton; Reed; Penrose; Hirst; Possi; Byford; Garrigues; Crossen; Kelly's Operative Gynecology; Surgical Diseases of Abdomen, by Douglas; Abdominal Operations, by Moynihan.

OPHTHALMOLOGY.

*Thomas Jefferson McCoy, M.D.,
Professor of Ophthalmology.*

*George Washington McCoy, A.M., M.D.,
Associate Professor of Ophthalmology.*

This course on diseases of the eye will consist of one didactic and two clinical lectures each week, giving practical instructions on the eye in general, the recognition, differentiation and treatment of the common, as well as the complicated diseases and injuries, teaching the recognition of diseases in the eye as diagnostic of disease in remote organs, the principles and the use of the ophthalmoscope and clinical instructions on refraction. Ample material is available at the hospitals, college and outdoor clinics.

Text Books: May; Fox; Jackson; De Schweinitz; Ball or Fuchs.

OTOLOGY, LARYNGOLOGY AND RHINOLOGY.

*William Leander Zuill, M.D.,
Professor of Otology, Laryngology, and Rhinology.*

*George Jesse Lund, M.D.,
Associate Professor of Ootology, Laryngology, and Rhinology.*

This subject is taught by lectures, recitations, reviews, and clinical instructions, consisting of three hours per week of didactic work and three hours per week of clinical work in the College Dispensary and County Hospital.

This course of special work comprises the latest and most modern methods in technique, and particular pains are taken to make the student perfectly familiar with the practical side of the diseases of these organs as presented in our regular clinics at the College Dispensary and County Hospital.

Special attention is given: First—To the Anatomy and Physiology of the Ear, Nose and Throat, and Accessory Sinuses. Second—Methods of Examination. Third—General pathological conditions. Fourth—Special diseases of the organs. Fifth—Diseases of Accessory Cavities. Sixth—Neoplasms. Seventh—Operations.

Text Books: Bishop, on Diseases of Nose, Throat and Ear, third edition; Kyle, Diseases of Nose and Throat; Coakley, on Diseases of Nose and Throat.

NERVOUS AND MENTAL DISEASES.

James Tucker Fisher, M.D.,

Professor of Neurology.

Thomas James Cummins, M.D.,

Assistant Professor of Neurology.

The course in Neurology, Psychiatry and Neuro-Pathology consists of lectures and clinics at the Medical School, County Hospital and Soldiers' Home each week during the third and fourth years.

The clinical course familiarizes the student with the common disturbances of the nervous system and some of the more important mental diseases.

The detention of the insane at the County Hospital, before commitment to the State Hospital for the insane, allows the student to see many forms of insanity.

Text Books: Dana; Starr; Gordon; Mettler.

STATE MEDICINE AND HYGIENE.

.....
Associate Professor State Medicine and Hygiene.

Two hours each week during the Junior and Senior year will be devoted to instruction in this important branch of medicine. Hygiene as applied to preservation of health and prevention of disease will be thoroughly illustrated, especial attention being given to the pure food law, state, national and interstate control of pure foods and drugs, adulterations, dilutions, labeling, etc.

School-room and military (camp) hygiene will receive especial consideration.

A full course in hygiene of air, soil, water, climate, food and diet; food supply, food diseases and adulterations; heating, lighting and ventilating of dwellings; municipal sanitation and water supply, sewage and drainage, disposal of refuse; in fact, every department in connection with preventive medicine and sanitary laws, will be given.

Text Books: Parkes; Egbert; Bergy.

ELECTRO-THERAPEUTICS.

*Louis Weber, B.S., M.D.,
Instructor in Electro-Therapeutics.*

Lectures will be delivered and recitations held during the Junior and Senior years covering the history of electricity, the different currents in use, and their application to practical therapeutics. The ground covered shall comprise knowledge of apparatus, currents employed, and technique of treatments, electro-diagnosis, magnetism, Roentgen rays, light and high-frequency therapy, and other allied subjects.

The latest electrical apparatus for practical clinical demonstration of all forms of electricity has been installed.

Text Books: Rockwell's Medical and Surgical Electricity; Massey's Treatment of Diseases by Galvanic and Faradic Electricity; Pussey's Caldwell on Roentgen Rays in Therapeutics and Diagnosis; Moneil's Static Electricity and X-Ray for Therapeutic Use.

GENITO-URINARY DISEASES.

*Warren Hichols Horton, M.D.,
Associate Professor of Genito-Urinary Diseases.*

This course comprises a series of lectures and clinical demonstrations throughout the Senior year, and is limited to Senior students.

In the didactic course, the anatomy, histology, embryology and physiology of the entire genito-urinary tract is reviewed, such time being spent on this as to insure a thorough knowledge of the fundamental principle of this subject, and then the diseases of the various organs are taken up separately, special attention being given to the pathological changes and their diagnosis.

The operative procedures are taught on the cadaver, and the students are required to go through the various steps of each operation under the guidance of the instructor.

The diagnosis is gone into with each pathological condition as it is being studied, but preliminary to this, special instruction is given in palpation and percussion and various other methods pertaining to genito-urinary diseases in general, individual in-

struction being given in the use of the cystoscope, urethroscope and catheterising ureters, etc.

These lectures will be illustrated by a series of clinical demonstrations upon material from the College Clinic and at the County Hospital.

No one text book is followed in the course, but the students of this branch are recommended to buy various texts, and thereby the class has the advantage of the different authors writing on this subject.

Works recommended: Casper; Kreissel; Fynger; Corner; Keyes; White and Martin; Morrow's System; Deaver's Diseases of the Prostate Gland; and various texts on Anatomy, Histology and Embryology used in other departments of the school.

DERMATOLOGY.

*Anstruther Davidson, C.M., M.B., M.D.,
Associate Professor of Dermatology.*

Dermatology, embracing within its scope Syphilography, has been taken from the Department of Genito-Urinary Diseases and placed in a separate department.

This course embraces one hour each week throughout the Senior year. The subject matter covered will be the histo-pathology and bacteriology of the skin, relations of diseases of the skin to other diseases and to other organs, embracing also patho- and radio-therapy, disorders of the glandular system, inflammations, hemorrhages, atrophies and hypertrophies, new growths, neuroses, parasitic affections, etc., etc., will be taken up, and the latest methods in etiology, diagnosis and treatment will be carefully outlined.

Syphilis, its effects, direct and remote, upon healthy and diseased organs, together with the most modern methods of diagnosis and treatment, will be covered thoroughly during the year.

Text Books: Lydston; Jackson; Stellwagon.

PEDIATRICS.

*Francis Oliver Yost, M.D.,
Professor of Pediatrics.*

The course in diseases of children consists of lectures, recitations and clinics, during the third and fourth years. In the lectures special attention is devoted to the subject of infant feeding, and the infectious diseases of childhood. The clinical course familiarizes the student with the symptomatology of the common diseases of children.

In the recitations a special effort is made to impress the practical points of diagnosis and treatment.

Text Book: Holt.

Collateral Reading: Koplik; Rotch; Jacobi; Cotton; Fischer; Corlett; Graetzer; Ruhrah; Kerr; Kerley; Pfaundler and Schlossman.

MEDICAL JURISPRUDENCE.

Professor of Medical Jurisprudence.

Lectures will be given on the following subjects: Legal relations of physician to patient and patient to physician, including rights to compensation, collection of fees, malpractice; legal relations of physician to government, including government regulation of practice, power to protect public health, nuisances and their abatement, adulteration of foods; elementary general principles of law, knowledge of which frequently is required by and useful to physicians, including wills, estates of insane and deceased persons, crimes of violence, rights of children, negligence; legal aspects of mental disorders and diseases, including testamentary capacity, criminal responsibility of insane, alcoholism and drug addictions, legal incompetency to contract, care for and custody of insane, property rights of insane; personal injuries by violence (a) in civil damage cases, and (b) in criminal cases, including rules of evidence, medico-legal inspection, autopsies (a) to ascertain cause of death, and (b) to obtain evidence of manner of infliction, suicide; toxicology, sex perversions, pregnancy, disease and divorce; life and accident insurance; expert and opinion evi-

dence, including the medical witness, his position, rights and duties.

Efforts will be made in this department to familiarize students with the proper methods of practice and procedure in all matters wherein the practitioner of medicine is likely to come in contact with the law or the government, and especially in that large class of cases where accurate knowledge of legal requirements is called for upon the instant. The lack of such knowledge frequently has enacted great embarrassment, both to the courts and to the medical profession.

Text Books: Taylor; Witthaus and Becker, Forensic and Medicine Toxicology.

HISTORY OF MEDICINE AND MEDICAL BIBLIOGRAPHY.

P. C. Remondino, M.D.,

Lecturer on History of Medicine and Medical Bibliography.

Dr. Remondino delivered, during the session of 1909-1910, a series of lectures to the entire student body upon that most interesting and instructive topic, History of Medicine and Medical Bibliography. This subject has been added to and made a part of the curriculum of this College. Dr. P. C. Remondino, of San Diego, Cal., has been selected to present this course, he being a man of finished scholarly attainments, and his inherent ability, together with his broad and comprehensive knowledge of this subject, the results of a lifelong study and research into the seemingly impenetrable mysteries of the history of medicine, is an evidence of his peculiar fitness to mak this course interesting and instructive. Dr. Remondino will endeavor to make this course an epitome of the general History of Medicine, taking up probably first the history of Aboriginal Medicine, then the Egyptian and Hindoo periods, to be followed by the Ante-Hippocratic Greek medical period. Then will follow the Hippocratic and Alexandrian, the Roman and the Arabian, with the period of renaissance in Europe in the Sixteenth Century. In fact, a review of Medicine from the earliest possible obtainable history down to and including the present, will be given.

The above outline of the course will suffice to call the attention of the student along these lines to the opportunities offered here in this too oft neglected department. We believe that the broad-minded, up-to-date medical man should know at least something of the history of his profession.

MEDICAL ECONOMICS.

Professor Bryson.

Professor Seymour.

This College, in keeping pace with the advancements being made in medical teaching and training, has adopted the recommendation of the Educational Council of the American Medical Association and added to its curriculum a Department of Medical Economics. The young man or woman taking a degree from a medical institution must go forth usually ill prepared to take and to occupy that high position, and place in the professional and business world that should be expected of them. This course will consist of twelve lectures to the Junior and Senior classes throughout the term upon the fundamental business principles so essential to the success of the young practitioner, the duties of the medical man to himself, to his confreres, to his patients, and to the public at large, the relation that should exist between the medical man and the druggist, the Church and the State, etc., etc. This course will aim to inculcate into the mind of the student that broad spirit of altruism which should regulate and control the relations existing between mankind. This course will embrace and set forth that true spirit of fraternization that should permeate the ranks of the medical profession, that spirit of brotherly love which seems to have been forgotten by the medical fraternity in its onward and rapid progress. The basic principles of organization and unity will be outlined, and, in fact, medical sociology will be woven into a strong and durable fabric which we believe will redound greatly to the future benefit of those who go out into the world to accomplish better things by better methods.

COLLEGE OF LAW

CALENDAR

1910.

- September 12-17Entrance Examinations for First Semester.
- September 19, 20Registration for First Semester.
- November 24, 25Thanksgiving Vacation.
- December 19Christmas Vacation begins.

1911.

- January 2Christmas Vacation ends.
- February 2, 4Entrance Examination and Registration for Second Semester.
- February 22Washington's Birthday.
- May 31-June 13.....Final Examinations.
- June 15Commencement.

ADMISSION REQUIREMENTS

ADMISSION TO FRESHMAN CLASS.

Applicants for admission to the Freshman year must be at least 18 years of age; must furnish two certificates of good moral character; and must pass satisfactory examinations as hereinafter prescribed, unless otherwise qualified to be admitted.

Graduates of high schools maintaining a four years' course of study or other educational institutions whose course is equivalent to such a high school course, are admitted without examination. Certificates of graduation should be presented.

Other applicants are required to pass satisfactory examinations in each of the subjects of one of the regular four-year high school courses.

In special cases the Dean and Secretary have authority to admit as a special student an applicant who has not the required educational qualifications. Such admission, however, is conditional upon the applicant making up such deficiency before he enters the Senior year.

TO ADVANCED STANDING.

Applicants for admission to the Junior or Senior classes must present certificates of the completion by them of work equivalent to that for which they seek to be credited. Certificates will be accepted when issued by a law school belonging to the Association of American Law Schools, or other colleges of law whose requirements are as high and whose course is as extensive as that here given. Applicants for advanced standing not having such certificates must pass examination in the subjects for which they seek credit, but any student who desires to take such an examination must first secure permission to do so from the Dean and Secretary.

Such examinations are given only at the beginning of a semester. A charge of two dollars is made for each special examination.

The school reserves the right to reject any applicant.

Any student displaying a deficiency in English and diction may at any time be required to take instruction in the class of Expression.

The school reserves the right to expel any student whenever the Board of Control deems it necessary for the welfare of the Law School, and to suspend any student or use other methods of discipline, whenever deemed advisable by the Dean and Secretary.

SPECIAL EXAMINATIONS.

Any student taking the regular course who desires to omit class attendance on any subject and to take a special examination thereon, shall place in the hands of the Secretary a petition asking for the privilege and stating the student's reason therefor.

The petition is referred to the Dean and Secretary. If the permission is granted, a special examination may be given. Such examinations and all examinations for advanced standing, are given at the beginning of a semester, and are passed upon by the instructor teaching the subject, and by the Secretary of the Law School. Passing grade upon all such examinations is 85%.

COURSE OF INSTRUCTION.

The method of instruction is a combination of the lecture, text-book and case systems, with practical experience in briefing and pleading.

The purpose of this college is to impart a sound and thorough legal education and to qualify students for admission to practice in all the courts not only of this, but of any other state, and in the Federal Courts.

Attention is called to the fact that courses are given in Briefing and the Use of Books. In addition to the briefs required in Moot Court work, the members of the Faculty assign subjects for briefs in connection with their respective classes.

The course of study, covering a period of three years, leads to the degree of LL.B.

The Graduate course of one year leads to the degree of LL.M.

All regular students of the law department are entitled to four hours of instruction per week in the College of Liberal Arts without additional cost.

THE DEGREES OF A.B. AND LL.B.

When a student in the College of Liberal Arts has received 94 semester credits (including all prescribed work) and of these has taken not less than 72 in the College of Liberal Arts of the University of Southern California, he may enter the College of Law; and upon the satisfactory completion of the professional course, receive both degrees, Bachelor of Arts and Bachelor of Laws.

ADMISSION TO THE BAR.

Graduates of the University of Southern California, College of Law, are admitted to the bar upon motion and without examination.

SCHOLARSHIP CONTESTS.

A scholarship is given to that member of the High School Graduating Class of 1910 writing the best thesis. Full information concerning this contest may be secured by addressing the Secretary.

ALUMNI MEDAL.

This prize is an unusually elaborate gold medal, which is presented each year at commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole College course. This medal was awarded in 1908 to William E. Stayton.

DEBATING CLUBS.

The Freshman Debating Clubs are under the supervision of the College, and attendance at seventy per cent of the meetings is compulsory on all regular students of the Freshman Class. The Dean of the College of Oratory directs the work.

The Lyceum is a club having a restricted membership, and is composed of members of the Junior and Senior Classes.

The debating contest in which all regular students are eligible to participate, is conducted each year. Those securing first, second and third places receive handsomely engraved certificates and make up the First Debating Team to represent the College of Law in contests with other institutions. The subject of the try-out debate for the year 1909 to 1910 was: "Resolved, that the primary system for nominating public officers, as adopted by the State of California, should be abolished." The Law School was held November 10, 11 and 12, 1909.

ORATORICAL ASSOCIATION.

The Law School Oratorical Association is organized for the purpose of stimulating interest in oratory.

Occidental College, Pomona College, Whittier College and the University of Southern California compose an Oratorical Association. Students of the Law Department are eligible as representatives of the University in the contests.

A cash prize of \$75 is awarded the winner of the local try-out; \$15 is awarded the contestant taking second place, and \$10 is given the one taking third place.

A contest is also held between representatives of the same Colleges, called the Peace Oratorical Contest. A cash prize of \$100 is awarded the winner of the Inter-Collegiate event.

FRATERNITIES.

The legal fraternity of the Phi Delta Phi has a chapter here known as Beatty Chapter.

Students intending to organize a fraternity must first obtain the consent of the Dean and Secretary.

ATHLETICS.

Regular students of the Junior and Senior years of the College of Law take part in all Inter-Collegiate athletic events in which the University participates, including baseball, football, track meets and tennis.

The Law School has separate baseball, basketball and football teams. It is expected that during the coming year each will be as strong as any of its kind in Southern California.

FEES AND EXPENSES

An entrance fee of \$10.00 is required upon registering.

Tuition fees for the day school are \$42.50 per semester, or if paid in advance at the beginning of the college year, \$75.00 per year.

Tuition fees for the Night School are, for the Freshman year, \$22.50 per semester, or if paid in advance at the beginning of the College year, \$40.00; and for the last three years of the Night School \$35.00 per semester, or if paid in advance at the beginning of the College year, \$60.00.

The yearly student body assessment is \$1.00 per school year, and is paid upon registration.

Failure to pay fees when due debars from the class room. Students who are compelled to withdraw from school on account of sickness, will have a part of their tuition refunded upon application.

Address all communications to

GAVIN W CRAIG, Secretary,
College of Law, University of Southern California,
Exchange Bldg., Los Angeles, Cal.

CURRICULUM

In addition to the following, special lectures are provided during the year upon subjects which though not really required in a legal course, are yet of much value to those desiring a well rounded knowledge of the law.

Unless otherwise specified the method of instruction is by text-book and selected cases.

On account of the large number of students enrolled, the classes are divided into several sections. These meet at different times of the day so that students may select a section to suit their own convenience.

The duration of each period specified below is one and one-half hours.

FIRST YEAR.

First Semester.

<i>Contracts</i> (Two Periods).....	Clair S. Tappaan
<i>Criminal Law</i> (Two Periods).....	Frank R. Willis
.....	Percy V. Hammon
<i>Elementary Law and Blackstone</i> (Four Periods).....	Gavin W. Craig
<i>Torts</i> (Two Periods)	Kemper B. Campbell
<i>Personal Property</i> (Lectures, One Period).....	Frank M. Porter
<i>Use of Books</i>	T. W. Robinson

Second Semester.

<i>Contracts</i> (One Period)	Clair S. Tappaan
<i>Criminal Procedure</i> (Penal Code and Selected Cases (One Period)	Frank R. Willis and Percy V. Hammon
<i>Damages</i> (One Period)	Kemper B. Campbell
<i>Torts</i> (Two Periods)	Kemper B. Campbell
<i>Domestic Relations</i> (Two Periods)	James W. Taggart
<i>Bailments</i> (Two Periods)	Frank M. Porter
<i>Negligence</i> (One Period)	Wm. P. James
<i>Agency</i> (One Period).....	Lewis A. Groff
<i>Moot Court</i> (One Period).	

SECOND YEAR.

First Semester.

<i>Wills</i> (Two Periods).....	Frank M. Porter
<i>Common Law Pleading</i> (Two Periods).....	H. C. Dillon
<i>Private Corporations</i> (One Period).....	George H. Woodruff
<i>Real Property</i> (Two Periods)	Gavin W. Craig
<i>Briefing</i>	T. W. Robinson
<i>Equity Jurisprudence</i> (Two Periods).....	H. C. Dillon
<i>Constitutional Law</i> (One Period).....	W. A. Cheney
<i>Moot Court</i> (One Period).	

Second Semester.

<i>Private Corporations</i> (One Period).....	George H. Woodruff
<i>Equity Jurisprudence</i> (Two Periods).....	H. C. Dillon
<i>Real Property</i> (Two Periods).....	Gavin W. Craig
<i>Commercial Paper</i> (Two Periods).....	Myron Westover
<i>Partnership</i> (One Period).....	Clair S. Tappaan
<i>Justice Court Practice, Code of Civil Procedure of California and Lectures</i> (One Period, Part of Semester)....	Albert Lee Stephens
<i>Patents</i> (Lectures, One Period, Part of Semester).....	James R. Townsend
<i>Statutory Interpretation</i> (One Period).....	T. W. Robinson
<i>Constitutional Law</i> (One Period)	W. A. Cheney
Lectures and Selected Cases (One Period).	
<i>Water Rights and Irrigation Law</i> (One Period)....	Gavin W. Craig
<i>Moot Court</i> (One Period).	

THIRD YEAR.

First Semester.

<i>Code Pleading</i> (Two Periods)	James G. Scarborough
<i>Evidence</i> (Three Periods)	Frank M. Porter
<i>Public Corporations</i> (Two Periods)	Walter F. Haas
<i>Equity Pleading</i> (One Period)	H. C. Dillon
<i>Mining Law</i> (One Period)	Lewis A. Groff
<i>Legal Ethics</i> (Lectures)	John D. Pope
<i>Insurance Law</i> (Twelve Lectures)	Seward A. Simons
<i>Moot Court</i> (One Period).	

Second Semester.

<i>Code Pleading</i> (Code Civil Procedure and Text Book, Two Periods)	James G. Scarborough
<i>Real Property</i> (Four Periods)	Gavin W. Craig
<i>Evidence</i> (Three Periods)	Frank M. Porter
<i>Federal Procedure</i> (One Period)	H. C. Dillon
<i>Bankruptcy</i> (Five Lectures)	W. T. Craig
<i>California Lien Law</i> (Five Lectures)	Frank James
<i>Appeals</i> (Three Lectures)	James W. Taggart
<i>Admiralty</i> (Eight Lectures)	E. W. Tuttle
<i>Underground Waters</i> (Three Lectures)	George H. Hutton
<i>Moot Court</i> (One Period).	

NIGHT SCHOOL

In response to a general demand for night classes in law, a Night School was established at the beginning of the year 1908-1909, and the first year's work, as hereinafter outlined, was given. The night course consists of the same subjects as the day course, but requires four years for completion. The instructors are the same as those of the Day School. Students may take as many or as few subjects as they desire, and one may complete the course by taking two years in Night School, two Summer Schools, and the third year with the regular day Senior Class. Graduates of the Night School receive the degree of Bachelor of Laws (LL.B.), and under the laws of the State of California are admitted to the Bar without examination. During the year 1909-1910 classes will be conducted in the first two years of the Night School, and it is expected that each additional year's work will be added until the entire four years' course is offered.

CURRICULUM OF NIGHT SCHOOL.

FIRST YEAR.

First Semester.

<i>Contracts</i> (Two Periods).....	Clair S. Tappaan
<i>Criminal Law</i> (Two Periods)	Frank R. Willis
<i>Elementary Law and Blackstone</i> (Two Periods).....	Gavin W. Craig
<i>Torts</i> (One Period).....	Kemper B. Campbell
<i>Agency</i> (One Period)	Lewis A. Groff

Second Semester.

<i>Contracts</i> (One Period).....	Clair S. Tappaan
<i>Criminal Procedure</i> (One Period).....	Frank R. Willis
<i>Elementary Law and Blackstone</i> (Two Periods).....	Gavin W. Craig
<i>Torts</i> (Two Periods)	Kemper B. Campbell
<i>Bailments and Carriers</i> (Two Periods).....	Frank M. Porter

SECOND YEAR.

First Semester.

<i>Negligence</i> (One Period)	William P. James
<i>Damages</i> (One Period).....	Kemper B. Campbell
<i>Private Corporations</i> (One Period).....	George H. Woodruff
<i>Water Rights and Irrigation Law</i> (One Period).....	Gavin W. Craig
<i>Wills and Probate Law</i> (Two Periods).....	Frank M. Porter
<i>Justice Court Practice</i> (One Period, Part of Semester)....	
.....	Albert Lee Stephens
<i>Patents</i> (One Period, Part of Semester).....	James R. Townsend
<i>Use of Books</i> (One Period, Part of Semester)....	T. W. Robinson

Second Semester.

<i>Personal Property</i> (One Period).....	Frank M. Porter
<i>Commercial Paper</i> (Two Periods).....	Myron Westover
<i>Partnership</i> (One Period)	Clair S. Tappaan
<i>Statutory Interpretation</i> (One Period).....	T. W. Robinson
<i>Common Law Pleading</i> (Two Periods).....	H. C. Dillon
<i>Private Corporations</i> (One Period).....	George H. Woodruff

GRADUATE COURSE.

A Graduate course of one year is given. The degree of Master of Laws (LL.M.) is conferred upon those who have previously received the degree of Bachelor of Laws (LL.B.) from any Law School which is a member of the Association of American Law Schools or from any other approved Law School maintaining a three-year undergraduate course, on completion of an approved course of graduate study equivalent to ten yearly periods.

The following is the course of study leading to the degree of Master of Laws (LL.M.) :

<i>Trusts</i> (Sixteen Lectures).....	William W. Phelps
<i>International Law</i> (One Period)	Willoughby Rodman
<i>Spanish and Mexican Land and Mining Law</i> (Twelve Lectures)	Warren E. Lloyd
<i>Contracts in Restraint of Trade</i> (Twelve Lectures).....	
.....	Wm. J. Hunsaker

<i>Interstate Commerce</i> (Twelve Lectures).....	E. W. Camp
<i>Codification</i> (Twelve Lectures)	William W. Phelps
<i>Extraordinary Legal Remedies</i> (Sixteen Lectures).....	
.....	Curtis D. Wilbur
<i>Public Officers</i> (Ten Lectures).....	Walter F. Haas
<i>Conflict of Laws</i> (Thirty Lectures).....	E. W. Tuttle
<i>Mortgages</i> (Four Lectures).....	J. W. Swanwick
<i>Logic</i> (One Period).....	James Harmon Hoose
<i>First Course, Jurisprudence</i>	George H. Smith

I. Elements of Jurisprudence.

- (1) Of the Several Kinds of Rights.
- (2) Of the Subject Matter of Jurisprudence, or of Persons, Things or Events.
- (3) Of the Principles of Jurisprudence.

II. Juristic Encyclopedia.

- (1) Of Morality.
- (2) Of the Theory of the State.
- (3) Of the Law.
- (4) Of Logic.

III. Historical Review of Modern English Theories.

Five Periods a Week during First Semester.

Second Course, American Common Law.....George H. Smith
Five Periods during Second Semester.

The following are books of reference to be used in connection with the subjects of Elements of Jurisprudence and American Common Law:

- (1) *Institutions of Justinian.*
(Translation and Original.)
- (2) Mackeldey's "*Roman Law.*"
- (3) Ortolan's "*History of the Roman Law.*"
(Translation, Butterworth & Co., 7 Fleet St., London.)
- (4) "*Outlines of the Science of Jurisprudence.*"
(Translated and Edited from the Juristic Encyclopedias of Puchta, Friedlander, Falch & Ahrens, T. & T. Clark, Edinburgh.)
- (5) *Theory of the State.*
(Bluntschli, Clarendon Press, Oxford.)
- (6) Hobbes' "*Leviathan.*"

- (7) Herbert Spencer's "*Social Statics*," and "*Justice*."
- (8) Kant's "*Philosophy of the Law*."
(Translation, T. T. Clark, Edinburgh.)
- (9) Austin's "*Jurisprudence*."
- (10) Holland's "*Jurisprudence*."
- (11) Markby's "*Elements of Law*."
- (12) Aristotle's "*Politics*," "*Ethics*," and "*Rhetoric*."
(Bohn's Library.)
- (13) Whateley's "*Logic*."
- (14) Jevon's "*Lessons in Logic*."
- (15) Sigwart's "*Logic*."
- (16) Bacon's "*Advancement of Learning*," "*Novum Organon*" and "*Essays*."
- (17) "*Elements of Right and of the Law*."
(Smith, Callaghan & Co., Chicago.)
- (18) "*Theory of the State*."
(Smith, "American Philosophical Society," Philadelphia.)
- (19) "*Logic or the Analytic or Explicit Reasoning*."
(Smith, Putnam Sons, N. Y.)
- (20) "*Logic and Its Uses; a Lawyer's View*."
(Smith, "American Law Review.")

PUBLIC SPEAKING, VOICE BUILDING AND EXPRESSION.

A course in Public Speaking, Voice Building and Expression is offered by Miss Beulah Wright, Dean of the College of Oratory, University of Southern California.

The course is designed to meet the needs of the students of the Department of Law. The work is of the most practical character.

It is the aim to teach a student to be simple and natural in his expression, and when occasion shall demand, powerful, but at all times to preserve his individuality. A great deal of stress is laid upon the development of the voice for purity, flexibility and control.

Most of the work done in classes is of an extemporaneous nature, such as short talks on current public questions, argumentation and debate. Attention is also given to the study

and delivery of great orations, as well as the preparation of original orations.

Students doing work in these classes may receive credit in the College of Oratory to apply upon either the Diploma Course or the Certificate Course. It is possible for a student to complete one of these courses during his three years' work in the College of Law.

SUMMER COURSE.

During each summer classes are conducted in a limited number of subjects. During the summer of 1910 the subjects to be taught will be Elementary Law and Blackstone, Bailments and Carriers, Common Law, Pleading, Wills and Probate Law, Partnership, Water Rights and Irrigation Law and a subject in the Senior Year, not amounting to more than two periods.

COURTS.

The Supreme Court of the State holds two sessions each year in Los Angeles, and the students have opportunity to hear carefully prepared arguments by the ablest lawyers of the country, and are required to attend Court not less than ten days each semester.

The United States Circuit and District Courts are held here and opportunity for study of the Federal practice and procedure is thus offered, on both law and equity sides.

The Appellate Court for the Southern District of California holds its session in Los Angeles.

The Superior Court of Los Angeles County, consisting of nine departments, is in session the entire year.

Three city Police Courts and four Township Justice's Courts, in which students in the Middle and Senior years can get some actual practice before admission to the bar, are in session daily during the entire year.

LIBRARY.

Students are allowed the use of the Los Angeles County Law Library, consisting of twenty thousand (20,000) volumes, upon the same terms as members of the bar.

The College of Law has a good working library of its own, consisting of State Reports, the Reporter System, Text and other case books, numbering in all 2,200 volumes.

MOOT COURTS.

Students of the Freshman Class in the second semester, and members of the second and third year classes, are assigned not less than two cases during each semester, which they are required to conduct through the Superior Court, and one of which must be taken up on appeal through the Appellate or Supreme Courts. Controversies are arranged and assigned upon statements of facts for trial.

All of the steps incident to a contested trial are taken, including preparation of pleadings, argument of motions and demurrers, preparation of briefs, taking of depositions, impanelling of jury, challenges, introductions of evidence, argument of case, etc.

Students of the First and Second years act as witnesses, client and jurors. These trials are presided over by a member of the Faculty and are conducted as nearly as possible in the same manner as trials in actual courts. Each student in the First and Second years must write at least three briefs which are examined and graded by the Judge of the Moot Court.

The Moot Courts consist of the Justice's Court, Superior Court, the Court of Appeal and the Supreme Court. The procedure conforms to that of the State of California with pleadings under the Code. Each firm is composed of a member of the Senior class and a member of the Junior class. Sessions of the courts are held weekly. A student acts as clerk of the Moot Court, and is at the Law School throughout the day.

Such a course of practical training is of inestimable value to one who intends to locate in California, or in any of the Western Code states.

Those desiring further information relative to the College of Law may obtain it by writing for its special announcement.

COLLEGE OF DENTISTRY

CALENDAR

1910.

- September 25.....Examinations for removal of conditions.
- October 4.....Tuesday, Opening exercise in main lecture room, 8 p. m.
- October 5.....Wednesday, Lecture Sessions begins for First Semester.
- October 15.....Saturday, Registration of Students closed for Lecture Session of 1909-1910.
- November 23.....Thanksgiving recess begins 6 p. m.
- November 28.....Monday, Thanksgiving recess ends 8 a. m.
- December 23.....Friday, Christmas recess begins 6 p. m.

1911.

- January 2.....Monday, Christmas recess ends at 8 a. m.
- February 1.....Wednesday, Lecture Session begins for Second Semester.
- February 22.....Wednesday, Washington's Birthday.
- May 17.....Wednesday, Freshman and Junior Examinations begin.
- June 15.....Thursday, Commencement.

COLLEGE OF DENTISTRY.

The year of 1910 promises to be as prosperous as any in the history of the College of Dentistry. In the past ten years the population of Southern California has nearly quadrupled, and the history of this department of the University has also been one of steady growth and improvement. The recent annexation of Wilmington and San Pedro to Los Angeles, which brings the harbor at San Pedro under the jurisdiction of our city, together with the completion of the Panama Canal and the Owens river water project, are positive factors in assuring the continued growth of this country.

The College will keep pace with this prosperity. Our present building, which was erected especially for the teaching of dentistry but five years ago, is now too small to accommodate our classes. Before the opening of the next term it will be necessary for us to either make additions to the present quarters or build again.

Students are coming to us from every State in the Union and every country in the world.

The College has the enviable reputation of being located in a city the most beautiful and with the loveliest climate of any in the world where Dentistry is taught. This, combined with the fact that the College is incorporated strictly as an educational institution, and is ever willing and ready to make any expenditure for the betterment of the school, is building up the student body.

Our Faculty is composed of many noted and excellent teachers.

A membership in the National Association of Dental Faculties is maintained.

ADMISSION REQUIREMENTS

Extract from Code of Rules of the National Association of Dental College Faculties:

"No college of this Association shall give credit for a full course to students admitted later than ten days after the opening day of the session, as published in the announcement."

In case one is prevented by sickness, properly certified to by a reputable practicing physician, from complying with the fore-

going rule, the time of admission shall not be later than twenty days from the opening day.

Candidates for admission will not be permitted to matriculate for any session other than that immediately succeeding the date of matriculation.

For matriculation in the Freshman class without examination the candidate must have 16 units in subjects representing High School work. Applicants may be admitted upon 12 units, provided that the 4 additional units shall be made up before entrance upon the second year of the course.

Prospective students who have not these preliminary requirements, and those who are studying with a view to taking up the profession of dentistry, will be advised by the Dean as to the most advantageous course to elect.

In lieu of such units the applicant will be required to pass a matriculate examination, which shall be the equivalent of that forming the basis of the certificate of required preliminary education.

No student can be received who is not present within ten days after the opening day as announced in the Bulletin, except in cases of sickness, when ten days' additional time will be allowed.

MEDALS.

1. The Cave Medal is given to the student making the best piece of Prosthetic Technic work.

2. The Los Angeles County Dental Society Medal is given the Senior who has made the best average on theoretical work during the College course.

3. The Ford Medal is given to the student making the best piece of Porcelain Technic work.

4. The Atwater Medal is given to the student making the best piece of Operative Technic work.

5. The Eshelman Medal is given to the Freshman student who has the best technic work for the year.

FEES AND EXPENSES

Fees payable in two equal installments—October 15th and February 1st.

No student will be admitted for less than the stated fees.

Freshman Year.

Matriculation fee.....	\$ 5.00
Lecture ticket.....	150.00
	<hr/>
	\$155.00

Junior Year.

Matriculation fee.....	\$ 5.00
Lecture ticket.....	150.00
	<hr/>
	\$155.00

Senior Year.

Matriculation fee.....	\$ 5.00
Lecture ticket.....	150.00
	<hr/>
	\$155.00

These fees include dissecting and all laboratory fees. There are no other charges made by the College.

DEPOSITS, BOOKS AND INSTRUMENTS.

Before beginning his work, each student will be required to procure the instruments necessary for his use.

The approximate cost of books and instruments, all of which are needed after graduation, is as follows: (This includes a dental engine, and gives the student a practical outfit, so that he can start into practice on finishing his course without much additional expense for instruments. A list of the instruments is furnished the student on his arrival.)

Freshman year.....	\$100.00
Junior year.....	135.00
Senior year.....	85.00

Address all communications to the

COLLEGE OF DENTISTRY, U. S. C.,

LEWIS E. FORD, D.D.S., Dean,

304 East Fifth Street, Los Angeles, California.

DEPARTMENTS OF INSTRUCTION

OPERATIVE DENTISTRY.

Professor Ford, Associate Professors Jordan and Gray.

In this department the student is instructed in the latest methods of operative procedure, the fundamental principles being taught in the Freshman and Junior Technic courses.

All of the different conditions, materials and methods of manipulation are considered, so that the student when graduated is competent to enter into active practice and give his patients the very best of dental services. In order to develop the judgment and diagnostic ability of the student the Seniors during the second semester are required to study each case presented to them in the Infirmary. When they have decided upon the best method of procedure they then call one of the instructors, who will confirm or correct their opinion.

If qualified at the beginning of the second semester, the Junior students are admitted to the Infirmary for practical operations.

A very thorough course is given in the preparation of cavities and construction of porcelain and gold inlays.

In connection with this department, Professor Jordan will give a course of lectures on The Care and Management of Children's Teeth.

This course will consider pre-natal influences, and the nutrition and development of the child as relating to the teeth; the treating, filling and extraction of children's teeth; the disturbances found in the oral cavity incident to the first dentition, and the management of children in the office.

Note.—All of the subjects outlined by the Faculties Association are taught, but this bulletin permits of outlining only those most closely related to the subject of Dentistry.

PORCELAIN.

Professor Eshelman, Dr. Goodman, Dr. Hopkins.

Porcelain is attracting more and more attention. It is the most artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which cannot be detected.

Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. The College is equipped with Townsend, Hammond and Custer electric furnaces, a large oil furnace for continuous gum work, fifteen Jenkins gas furnaces and machines for casting of gold inlays. Students are taught how to construct inlays by the use of Gold and Platinum matrices, the different blending of colors, and also a complete course of lectures is given covering the entire subject.

Opportunity is afforded the Seniors for making a technic continuous gum case.

OPERATIVE TECHNICS.

Professor H. Gale Atwater, John G. Sheaffer, D.D.S.

This important department is given especial attention in our College, for we realize that the future success of the student, as well as the dentist, lies in first instructions.

It is our aim to make this department one of the strongest in the College. The object of this course is to afford a thorough technical training in operative procedures, preparatory to practical work in the Infirmary; to develop manipulative skill and to give the students an intimate knowledge of the tissues upon which they are to operate, of the physical qualities and adaptation of the materials to be used, and facility in the use of instruments by systematized practice upon teeth out of the mouth.

Special attention will be given to a study of pulp chambers and root canals, their number, size, form, and their relation to the outer surface of the teeth. Sections of the natural teeth will be prepared by each student in such a manner that these features will be clearly shown.

The student will construct models carrying tooth forms of natural teeth, upon which operations will be performed as in actual practice. This will consist in the preparation of cavities and a study of their classification and forms; the study of enamel and direction of cleavage on different parts of the crowns of the several teeth with special reference to the best form and finish of margins of cavities for filling; the cutting of dentine and the various methods employed in anchoring fillings; the removal of carious tissue; the management of pits and fissures and the general shaping of the cavity. Instruction will also be given in the application of the rubber dam, the methods employed in gaining space, the use of clamps, wedges, separators, etc. In conjunction with practice in cavity preparation, there will be a study of filling materials and their manipulation. This course is designed to thoroughly ground the student in the principle of operative dentistry and prepare him to intelligently prosecute the practical work of the Infirmary.

COMPARATIVE DENTAL ANATOMY.

Professor Bebb.

This course covers a comparison of the teeth and surrounding tissues of man with those of the lower order of animal life. This is made more interesting and instructive to the student by the collection of crania, numbering 1500 specimens, which our museum affords, and a complete series of lantern slides for illustrating the lectures.

ORTHODONTIA.

Professor Jas. D. McCoy.

This subject is taught during the Junior and Senior years.

During the Junior year the course consists of a series of lectures illustrated by numerous lantern slides. Beginning with normal occlusion the lectures take up the different classes of mal-occlusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention, followed by a course in model and appliance making.

In the Senior year the instruction is entirely clinical and is given at the individual chair in the Infirmary.

CROWN AND BRIDGE WORK.

Professor Bowman, Dr. Engstrom.

Crown and bridge work pertains both to the operative and the prosthetic, and yet it occupies such an important field of dentistry that the College deemed it wise to make of it a separate department.

Students will receive a complete course in Crown technique, as well as lectures during their Freshman year. Juniors will receive a complete course in Bridge technique during the first semester, and will do practical work in the Infirmary during the balance of the year. Seniors will perform practical work in the Infirmary. The principles of construction of all of the various forms of crowns and bridges at present in use will be taught, also a study will be made of the stress applied by the muscles of mastication to the teeth, both singly and collectively, with its bearing upon crown and bridge construction, including the conditions under which bridges should or should not be used. The clinical facilities are excellent, requiring Porcelain and Gold Crowns and Bridges.

PROSTHETIC DENTISTRY.

Professor Eshelman, Dr. Engstrom.

Realizing that there is no branch of dentistry where students are ordinarily so deficient as in the prosthetic department, we have aimed to develop a practical working course in this line, to the end that our graduates may be able to do this class of work in a practical and artistic manner.

From an artistic standpoint we teach the higher possibilities of the art of restoring the features of the face, together with the staining and grinding of the teeth to meet the conditions of the individual type of the patient.

The fundamental principles of atmospheric pressure, leverage, etc., are dwelt upon, that the student may intelligently meet the conditions presented in difficult cases.

Both technical and practical denatures of all kinds are made, such as vulcanite, celluloid, aluminum, Watts metal, weighted rubber, gold and porcelain continuous gum.

Particular attention is paid to the latter, that the student may be able to restore the teeth of patients by the highest type of artificial appliance known to our profession.

Both practical and technic interdental splints are made for fracture cases, as well as obturators and velums for cleft palate cases.

A dentist may be called upon to restore loss of tissue adjacent to the oral cavity, and that our students may know how to do this class of work, they will be taught the making of celluloid ears and noses.

An overabundance of Infirmary patients, together with all modern appliances for doing the work under the direction of the most competent of professors and demonstrators, enables a student to develop a high degree of skill in this department.

INFIRMARY.

Our Infirmary and clinical facilities are our special pride. The room is large and beautiful, facing north (the ideal light), and is equipped with every modern convenience. The number of patients who apply here for services is truly phenomenal, and no student need fear that his practical education will be neglected. Last year more than four hundred patients in excess of the number that the students could find time to attend to applied for services. From this great clinic we are able to select for the student all of the operations in any given line in which he may desire to specialize, or where he feels that he needs extra experience and practice.

We have arranged the lecture schedule in such a manner that the students can work with little interruption from nine in the morning until four in the afternoon.

In charge of the work as professors and demonstrators we have a number of teachers of long experience and unquestioned ability. The student has the advantage of the personal contact and instruction of these competent men, and is not taught by students or recent graduates.

COLLEGE OF MUSIC

The Calendar of the College of Music is the same as that of the College of Liberal Arts.

The musical department of the University is now in its twenty-fifth year. By a faithful adherence to high standards its faculty have brought it to a well recognized position in higher musical education. Its diplomas have all the prestige which comes from its long establishment and the name of the University. Its graduates and former students are taking prominent places in the musical world all over the Southwest, both as teachers and performers.

Extended courses are offered in a wide range of musical subjects. The end sought in every branch pursued by the student is such thoroughness as will give him a genuine accomplishment and true culture or insure him the mastery expected of a professional.

ADVANTAGE OF COLLEGE STUDY.

The general spirit of earnest study characteristic of an institution of higher learning such as the University has been found to react very beneficially on the student of music, who, too often, is inclined to superficiality. Breadth of character and liberal ideas are more surely attained in the atmosphere of general education than in that of specialized study.

Among the many points of superiority of college study in music may be mentioned the regular attendance at lessons required; the musical atmosphere created by the recitals, lectures and class work; the incentive to greater effort by observing the proficiency of others; the sharpening of the critical faculties and the development of taste by hearing other students perform; the opportunity given for obtaining in class work at very slight expense, the very best of training in the theoretical studies such as harmony, theory and history of music—studies which are essential to the well-grounded musician and which the private teacher cannot touch upon in the lesson hour.

EQUIPMENT.

The College of Music occupies the south wing of the main building. The interior is thoroughly modern and artistic in finish and furnishings. It contains a commodious and elegant reception hall, furnished as a reception and reading room, also cloak room and lavatories, lecture hall and recital hall, and a large number of exceptionally large and attractive studios.

The school is equipped with a full complement of teaching and practice pianos. The pipe organ in the college chapel is available for practice only to our students. It is blown by electric motor and the charge for rental is no more than blower's fees would be in an organ blown by hand.

RECITALS.

A feature of the greatest value to the students is the weekly pupils' recitals, at which the pupils are expected to play or sing before the whole school, as their teachers may direct. Public performance is an art in itself, and can only be mastered by many public appearances. Pupils who acquit themselves creditably at the recitals before the music students only, are allowed to appear at the public recitals of the school. A practical familiarity is thus gained with the music of the other branches represented outside of the student's specialty. Recitals are also given by the faculty from time to time, who are also frequently heard in the recitals given by the advanced pupils. Music students have free admission to all public exercises of the school.

SIGHT SINGING.

Classes in sight singing are offered without charge to all regular pupils of the department. To others a small fee is charged. An opportunity is here given to acquire proficiency in reading at sight, an accomplishment equally valuable to both player and singer.

PUBLIC SCHOOL MUSIC.

This department is designed to supply the great demand for teachers competent to teach and supervise music in the public schools. The course aims to meet the requirements of the

boards of examiners and includes a thorough drill in sight singing, ear training, history and elementary harmony and a study of the best methods of instruction. The course requires two years, two hours per week, for supervisors and one-half this amount for regular teachers. In case a sufficient number of students desire to complete the course in one year, classes will be organized to meet four times per week.

NORMAL CLASSES FOR PIANO STUDENTS.

A course of twelve class lessons or lectures is given each year by the faculty and others on matters relating to the subject of teaching. Methods of instruction and technical problems are considered. Lists of teaching material are given and reviewed and a question box leads to interesting and valuable discussions. This course is required of all graduates.

THE COURSE OF STUDY.

The educational system of the school is divided into two general departments: the Preparatory and the Normal or Collegiate.

No requirements are made for admission, but applicants should be prepared to perform one or two musical selections of different styles representative of their previous work.

All beginners are received in the preparatory department, whether they plan for the regular advanced courses or merely desire the best of training during the time they devote to the study. Correct elementary teaching is the most important and, in some respects, the most difficult of all. It is the aim of the school to advance pupils as rapidly as is consistent with thoroughness and the formulation of correct habits.

The Normal or Collegiate department is designed for students preparing for the profession as teachers and artists and for amateurs desirous of obtaining a thorough training in the art and science of music.

DIPLOMAS.

The diploma of the University is given at the completion of the Normal or Collegiate course.

The requirements for graduation in any department are the completion of the prescribed course in that department, at least

one year's work in which must be done in this school; the completion of the Normal course of four semesters in harmony and ear training, one semester in musical theory and two semesters in musical history, and the public performance during the senior year of an entire program under the direction of the department teacher, and, for piano students, the Normal class work.

Organ students will also be required to take the semester of "key-board harmony." Vocal students are required to take one year of piano work.

TEACHERS' CERTIFICATES.

Teachers' Certificates will be given to those who have completed the work of the Normal course, but who for any reason are unable to give the public recital required for graduation. They will, however, be required to give before the faculty a program of a somewhat less exacting nature than that required for the diploma.

COLLEGE CREDITS.

Credits will be given in the College of Liberal Arts for musical work as follows: Two semester hours per term will be credited to students making passing grade in any one of the theoretical studies or advanced vocal or instrumental work, the total credits in any case not to exceed fifteen.

BUSINESS REGULATIONS.

Students entering after the opening of the term will register for the remaining portion, and will be charged pro rata, except that no deduction will be made for absence from the first two lessons. The work of the term begins on the date advertised, and students who enter late will find themselves behind their classes.

Students taking less than one-half term in class work will be charged for the half term; those taking more than a half term will be charged for the full term.

All students are required to attend the regular recitals of the school and to take part in them whenever so assigned.

No deduction will be made for occasional absence from lessons or for lessons discontinued without notice. Lessons missed will

be made up to pupils, if notice of the intended absence is given three days in advance.

Lessons falling on national holidays are not lost to students.

Sheet music will be furnished students at teachers' rates, if paid for on delivery.

A discount of fifteen per cent is allowed to the children of Methodist ministers on vocal and instrumental work.

Settle all accounts at the office only, making checks payable to THE DEAN.

TERMS: *Tuition is payable strictly in advance at the beginning of each half term.*

In case an extension of time is absolutely necessary, arrangements must be made with the Secretary, the terms of which will be stated on the bill and must be strictly adhered to.

For courses of study and further particulars send for special booklet.

TOTAL EXPENSES.

(By the Semester, Nineteen Weeks.)

MR. SKEELE.

Piano or Pipe Organ.

45 minutes, once a week.....	\$47.50
45 minutes, twice a week.....	95.00
30 minutes, once a week.....	38.00
30 minutes, twice a week.....	76.00

MR. PEMBERTON.

Theory, Harmony or History.

45 minutes, once a week.....	28.50
45 minutes, twice a week.....	57.00
45 minutes classes, twice a week.....	15.00

Violin.

1 hour, once a week.....	38.00
1 hour, twice a week.....	76.00

MR. SEILING.

Violin.

45 minutes, once a week.....	47.50
45 minutes, twice a week.....	95.00
35 minutes, once a week.....	38.00
35 minutes, twice a week.....	76.00

MISS TROWBRIDGE.

Piano.

45 minutes, once a week.....	33.25
45 minutes, twice a week.....	66.50
30 minutes, once a week.....	28.50
30 minutes, twice a week.....	57.00

MRS. BRIMHALL.

Piano.

45 minutes, once a week.....	28.50
45 minutes, twice a week.....	57.00
30 minutes, once a week.....	23.75
30 minutes, twice a week.....	47.50

MISS ARNETT.

Piano.

45 minutes, once a week.....	23.75
45 minutes, twice a week.....	47.50
30 minutes, once a week.....	19.00
30 minutes, twice a week.....	38.00

MISS PATTON.

Piano.

30 minutes, once a week.....	19.00
30 minutes, twice a week.....	38.00

Dunning System.

I hour classes of 4 to 6, twice a week.....	38.00
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MRS. ROBBINS.

Vocal.

40 minutes, once a week.....	47.50
40 minutes, twice a week.....	76.00
30 minutes, once a week.....	38.00
30 minutes, twice a week.....	57.00

MR. WHYBARK.

• *Sight Singing, or Public School Music.*

1 hour, Private Lessons, once a week	28.50
1 hour, Private Lessons, twice a week.....	38.00

Sight Singing.

45 minute classes, twice a week.....	*4.75
(*Free to Music Students.)	

Public School Music.

1 hour classes, twice a week.....	15.00
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Miscellaneous Expenses.

Normal Class, six lessons per semester.....	\$ 6.00
Rental of Pipe Organ, one hour each day.....	17.10
Rental of Pedal Piano, one hour each day.....	8.55
Rental of Piano, one hour each day.....	4.00
Diploma Fee	10.00
Certificate Fee	5.00

COLLEGE OF ORATORY

The system used in the College of Oratory is based upon the Cumnock Method, founded by Robert McLean Cumnock, L.H.D., Director of School of Oratory, Northwestern University, Evanston, Illinois.

The aims of the College are:

To develop the inner man.

To prepare the body to express the inner man.

The method is neither imitative nor mechanical, but is founded upon psychological principles.

The pupil acquires the power to interpret for himself and to express emotions through his own individuality. The result is a naturalness and simplicity of manner together with personal power.

A great deal of attention is paid to the Department of Public Speaking. Ministers, theological students, or any who may have occasion to address audiences, will find this work of great value.

The Calendar of the College of Oratory is the same as that of the College of Liberal Arts.

COURSES OF STUDY.

(*Class Work.*)

Course 1. Fundamental principles of expression, English phonation, enunciation, interpretation of selections from Cumnock's Choice Readings. *Two hours, first semester.*

Course 2. Voice building, breathing, tone placing, bodily expression, interpretation of selections from Cumnock's Choice Readings. *Two hours, second semester.*

Course 3. Interpretation from modern writers: Kipling, Barrie, Van Dyke, Riley, Kate Douglas Wiggin, Maclaren, Dunbar and others. *Two hours, both semesters.*

Course 4. A study of Lyric Poems: Wordsworth, Browning, Tennyson, Burns, Lanier, Arnold and others. *Two hours, either semester.*

Course 5. Voice, Relaxation, Concentration, Breathing, Tone Placing, Rhythm, Phrasing. *Two hours, one semester.*

Course 6. Debate and Extemporaneous speaking. *Two hours, either semester.*

Course 7. Oratory. A study of masterpieces of Oratory. Text, Sears' History of Oratory. *Two hours, either semester.*

Course 8. Shakespeare: Julius Caesar, or King Richard II; Twelfth Night, or Two Gentlemen of Verona; Midsummer Night's Dream. *Two hours, either semester.*

Course 9. Artistic Anatomy. A summary of Anatomy intended for the study of forms, attitude and movements. Text: Duval's Artistic Anatomy. *Two hours, first semester.*

Course 10. Repertoire, abridgement of books and classics for public presentation, arrangement of program, impersonation. Advanced students only. *Two hours, second semester.*

Course 11. Bible and Hymn Reading; Vocal Expression of the Bible and Hymns, Voice Building. Text: Curry's Vocal Interpretation of the Bible. *Two hours, either semester.*

Course 12. Assembly. A study is made of the art of telling stories to children. *One hour, both semesters.*

Course 13. Dramatic Club. Interpretation and presentation of the drama. A study of dramatic law. *Two hours, both semesters.*

• *Course 14.* Physical Expression. Two years of training for physical development and the acquiring of grace and harmony in all bodily movements. *Two hours, both semesters.*

DIPLOMA COURSE.

The work required in this course consists of: Three years of private work, two lessons per week; the fourteen courses; two years' gymnasium work; College work sufficient to enroll a student as a Junior in the College of Liberal Arts.

CERTIFICATE OF EXPRESSION.

The work required in this course consists of: Two years of private work, two lessons per week. Courses 1, 2, 3, 5, 9, 10, 12, 13, 14, and two of the remaining five courses to be elected; one year of Gymnasium work.

Students wishing to complete this course of study must have at least one year of History, and two years of English.

CERTIFICATE OF PHYSICAL TRAINING.

The work required in this course consists of: Two years of private work in physical training, two lessons per week. Courses 1, 2, 3, 5, 9, 13, 14 and three of the remaining seven courses to be elected; two years of general work in the Gymnasium.

Students wishing to complete this course must have at least one year of Physiology or Hygiene.

RECITALS.

Pupils' recitals are given every two weeks, on Wednesday at 3:50 p. m., in the Athena Literary Hall. The participation in these recitals by students is required that the student may have practice and gain confidence in appearing before audiences. All students enrolled in the school are expected to be present at each recital. Admission to friends is by card.

Faculty recitals are given each semester by the instructors in the school, or by artists from the outside.

PHYSICAL EXPRESSION.

"Is not that the best education which gives to the mind and to the body all the force, all the beauty and all the perfection of which they are capable?"—Plato.

Special classes in Physical Culture are conducted for the Oratory students. The laws which underlie Physical Expression are here studied and such exercises are given as will best develop the pupil toward health, expressiveness of movement and grace. It is the aim of this work to bring the body under perfect control of the will, and to teach the principles of gesture in such a manner as to give spontaneity and freedom from affectation.

CHILDREN'S DEPARTMENT.

This course is planned for children under twelve years of age. Classes are organized in expression, where the children are trained in common reading and in the delivery of recitation.

Classes are also formed in Physical Culture, where children are taught correct breathing, standing, walking, sitting, and ease and lightness of movement. Exercises are given to correct individual faults of body, such as round shoulders and hollow chests.

TUITION.

Fees are payable to the Dean in advance.

Instruction per semester (18 weeks).

Full course, including two private lessons per week, four or more classes in Expression, one study in the Preparatory School, or College of Liberal Arts.

Paid in advance for the year.....	\$130.00
Full course, per semester.....	70.00
Two private lessons per week (30 minutes).....	50.00
One private lesson per week (30 minutes).....	25.00
A course of ten lessons (30 minutes).....	15.00
One private lesson per week (45 minutes).....	37.50
A course of ten lessons (45 minutes).....	22.50
Single lessons (45 minutes).....	3.00
Single lessons (30 minutes).....	1.50 to 2.00
Class, two periods per week (55 minutes).....	10.00
Dramatic Club, two periods per week (55 minutes).....	10.00
Coaching plays (60 minutes).....	1.50

PHYSICAL EDUCATION.

Full certificate course.....	\$60.00
One private lesson per week (30 minutes).....	25.00

CHILDREN'S DEPARTMENT.

Two private lessons per week, Expression (30 minutes)....	\$35.00
One private lesson per week, Expression (30 minutes).....	20.00
Class Expression, course of 15 lessons.....	8.00
Class Physical Culture, course of 15 lessons.....	5.00

A discount of 10 per cent on all private work will be given to ministers.

No tuitions are refunded except in cases of protracted illness.

A registration fee of \$5.00 is charged, which is included in the tuition. In case a refund is made the registration fee is deducted.

The diploma fee is \$10.00.

The certificate fee is \$5.00.

A student in the College of Liberal Arts may elect a maximum of fifteen hours in the College of Oratory.

University of Southern California College of Oratory,
Thirty-fifth Street and Wesley Avenue.

Miss Beulah Wright, Dean.

COLLEGE OF FINE ARTS

CALENDAR.

1910.

September 13, Wednesday.....Enrollment.

September 15, FridayInstruction begins.

November 24-25, Thursday,
Friday.....Thanksgiving Vacation.

December 25, SundayChristmas Vacation begins.

1911.

January 2, Monday.....Christmas Vacation ends.

February 1, Wednesday.....Second Semester begins.

June 15, Thursday.....Commencement.

The college course in art teaching doubtless owes its splendid success to public appreciation. It makes its appeal equally to those who study for the sake of knowing and to those who desire and are willing to work for the front places in their profession.

It is one thing to know well the technic of a single branch of art and quite another thing to know in addition the technic of all branches as well as the history, purposes and trend of the great schools and periods, the theory of color and composition, the chemistry of pigments, the anatomy of the human figure and everything that can interest the worker as artist or teacher, the ability to judge pictures and to talk intelligently about them.

COURSES OF STUDY.

Teachers' Course—Three Years.

First Year. Charcoal drawing from the cast, pencil drawing from landscape, mechanical drawing, including geometry, perspective and projection, art history and mythology.

Second Year. Drawing from life, portrait, draped and nude figure, composition, landscape, modelling, applied design, anatomy, water color, art history, sacred history, pottery and metal work.

Third Year. Painting in water color and oil from life and landscape, pen and wash drawing, composition, modelling, anatomy, design, art crafts in metal, wood and pottery; normal teaching course.

Architectural Course—Two Years.

First Year. Same as teachers' course.

Second Year. Building construction, plan drawing, perspective, historic styles, history of ornament, nature of materials, stresses and strains and mathematics.

Sculpture—Three Years.

First Year. As in teachers' course.

Second Year. Modelling from life, draped and nude; portrait, art history, mythology, anatomy.

Third Year. Modelling from life, grouping, composition, historic monuments, anatomy and casting in plaster and metal.

Degree Course—Four Years.

First, Second and Third Years. As in teachers' course.

Fourth Year. Painting in water color or oil, life or landscape, etching, pastel painting and design.

APPLIED ARTS.

The field of applied arts is often used by the student as a convenient stepping stone to the fine arts. There is always demand for expert workers in the crafts, and the College of Fine Arts is always alert to fit the student for salary earning and the stress of competition in active life. Among the most readily acquired and available crafts at the present time are wood carving, art glass, illuminating, scene painting, sign writing, jewelry and architectural perspective. It should always be understood that there are already too many untaught or half taught artisans in the field, but there is always room at the top.

SPECIAL BRANCHES.

The painting course includes drawing, technic in water and oil, anatomy, chemistry of pigments, color harmony and composition.

ANATOMY.

Artistic anatomy includes study of the skeleton, superficial muscles and movements from life.

ILLUSTRATING.

This course embraces the technic of charcoal, pencil, pen and brush work, anatomy and the principles of design and composition.

DESIGNING.

The course in design covers mechanical drawing, composition, the history and principles of ornament, color harmony, the constructive requirements of fabrics, glass work, fictile products, metal work, etc.

METAL WORK—BRASS AND IRON.

Includes hammer work, etching, chasing, piercing, mould making, casting, forging and enamelling.

JEWELRY.

This course includes wire and band work, casting, chasing, jewel setting, enamelling and design.

NORMAL ART COURSE.

Includes practical work in all the art branches taught in grade schools, as object drawing in pencil, charcoal and wash, silhouettes, potato printing, stencilling, cardboard modelling, colored chalks, harmony, design, etc.

WOOD CARVING.

Wood carving includes design, the selection of woods and the technic of carving, incising, bas-relief and the round.

ART GLASS.

Art glass includes design, hard metal mounting, leading, cutting, color harmony, painting on glass and firing.

POTTERY.

Pottery covers clay modelling, the potters' wheel, moulding, glazing, firing, underglaze painting, harmony and design.

GENERAL INFORMATION.

Certificates and other honors are conferred by the University of Southern California, with which institution the College of Fine Arts is affiliated.

Special branches may be taken separately from the course and certificates of proficiency will be granted on passing the required examination.

Credits for work done in other schools will be allowed when satisfactory proficiency is shown.

Students in special branches may enter the school at any time.

At the College of Liberal Arts in the University building classes are conducted in mechanical drawing, perspective, machine drawing, architecture and freehand drawing.

Lectures. There are three lectures per week on anatomy and other art subjects.

Rooms may be obtained in the immediate neighborhood, with or without board, at very moderate rates.

Frequent competitions are open to advanced students, entitling the winners to certain school privileges.

A gold medal is each year given to the student of any grade making the best record.

A scholarship for one year is given to the graduate making the best record.

FEES (*All day lessons*).

6 days per week.....	\$13.00 per month
5 days per week.....	12.00 per month
3 days per week.....	7.00 per month
1 day per week.....	4.00 per month
Single Lessons, each.....	1.00
Full Collegiate Year.....	95.00
Per Semester	50.00
To post-graduates, per year.....	25.00
Graduation Fee	5.00
Art Crafts, per 12 lessons.....	10.00

No charge is made for models, lockers, boards, easels, etc.
Materials are furnished to students at wholesale rates.

All fees payable in advance.

Class hours: 9 a. m. to 12 M. 1 p. m. to 4 p. m.

COLLEGE OF PHARMACY

CALENDAR

1910.

October 17, Monday.....Registration Day.

October 18, Tuesday.....Instruction begins for First Semester.

November 24, Thursday.....Thanksgiving Vacation.

November 25, Friday.....

December 19, Monday.....Christmas Vacation begins.

1911.....

January 2, Monday.....Christmas Vacation ends.

February 1, Wednesday.....First Semester ends.

February 22, Wednesday.....Washington's Birthday.

May 22, Monday.....Final Examinations begin.

June 15, Thursday.....Commencement.

COLLEGE OF PHARMACY.

The demands of pharmaceutical progress today require representatives who possess technical knowledge. The College of Pharmacy, an integral department of the University of Southern California, was organized to supply this demand; its aim and purpose being to create a means for higher pharmaceutical education, and supply a broadened foundation for the students' professional career by providing systematic instruction, and special training in those subjects requisite for the successful practice of pharmacy.

LOCATION AND EQUIPMENT.

The College of Pharmacy is located at 35th Place and Wesley avenue, on the campus of the University of Southern California. The departments of pharmacy and chemistry are in the new Chemistry building. The laboratory for pharmacy and chemistry is large and thoroughly equipped with modern laboratory desks, hoods, water, gas, pharmaceutical and chemical apparatus, chemicals and all the conveniences of a modern laboratory. The balance room is a separate room, well lighted and supplied with twelve of the best analytical balances. The store room is accessible from the laboratory and is supplied with a large quantity of apparatus and chemicals of the best make.

The pharmacy and chemistry lecture hall is capable of seating about 100, is conveniently arranged and fitted with demonstration desk.

The botany and physiology laboratories are in the College of Liberal Arts. These are large, well lighted and thoroughly equipped. Each student is supplied with a desk and microscope.

The lecture hall has a capacity of about 200, and is provided with skylight and fitted with screens to adapt it to the electric projection apparatus and stereopticon which form part of the equipment.

The halls have been provided with glass cases in which are kept a large collection of specimens for demonstration and study.

UNIVERSITY ADVANTAGES.

The close association of the student of the College of Pharmacy with those of the other colleges of the University on the campus affords valuable opportunities for social culture and attending lectures on subjects of vital interest to the student.

COURSE OF INSTRUCTION.

The system of instruction will include lectures, demonstrations, recitations, written and oral examinations, as well as individual instruction in operative and dispensing pharmacy; organic, inorganic and analytical chemistry; botany, materia medica, pharmacognosy, toxicology, hygiene, physiology, sanitary science, food and drug analysis, and microscopy, with special lectures upon business topics especially suited to the retail pharmacist.

The session will open October 17, 1910, and will continue until June 3, 1911, and the schedule will be conducted during the forenoon so as to allow students the privilege of retaining their positions as clerks in the stores of Los Angeles and neighboring towns while attending college. The hours of instruction are from 8 a. m. to 12 M.

REQUIREMENTS FOR ADMISSION.

Requirements for admission may be met as follows:

1. Graduation from an accredited High School or other preparatory school or approved rank.
2. The completion of one year of High School work or its equivalent after eight years of Grammar School work.

Any delinquencies in the entrance conditions may be removed during the first year's work in Pharmacy in the Preparatory School of the University or with tutors approved by the College of Pharmacy.

Applicants must be at least seventeen years of age.

ADVANCED STANDING.

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this College.

CONDITIONS FOR GRADUATION.

The candidate for the degree of Graduation in Pharmacy (Ph. G.) from this College must have fulfilled the following conditions:

- *1. He must have attained the age of twenty-one years.
2. He must be of good moral character and must have maintained an irreproachable moral standing while in attendance at this College.
3. He must have attended two full courses in each of the departments of this College, or one course (the Senior) in this, after a course in some other recognized College or Pharmacy.
4. He must present a thesis embodying an account of some special work done under the supervision of the Faculty.
5. He must have attended at least 80 per cent of the lectures, reviews and laboratory work.

6. He must be present at Commencement unless excused by the Dean.

*If under age, the degree will be conferred at the satisfactory completion of his course in college; but his diploma will be held by the Dean until this condition has been complied with.

EXAMINATIONS.

Written examinations are held from time to time during the session in each of the subjects taught by the professors, and the ratings received are recorded.

Attendance upon these examinations is Compulsory. Any student unavoidably absent is required to deliver to the professor a statement in writing of the cause of his absence.

Each student is required to attend at least eighty per cent of the lectures and laboratory sessions in each department and failing to do so becomes ineligible for examinations except where he presents a satisfactory excuse for absence prior to the examination.

Junior Examination (for admission to the Senior class.)—Junior students, whose rating shows satisfactory progress, receive certificates entitling them to admission to the Senior Class.

Junior students who receive a low grade in not over two subjects may enter the Senior class on condition, such conditions to be removed by examination before the end of the first semester of the Senior year.

Junior students who fail in more than two subjects are required to attend college another term.

First-course students from other colleges of pharmacy, who desire to enter the Senior class of this college, are required to produce evidence of their fitness, or to pass an examination.

Senior Examination. Students in the Senior class are examined for the degree of Graduate in Pharmacy at the end of the session, in Inorganic and Organic Chemistry, Pharmacy, Botany, Materia Medica, Pharmacognosy, Physiology and Toxicology.

Thesis. Senior students will be required to present a graduating thesis. Such thesis is to show the result of some original work in one of the departments of pharmacy. The subject of the thesis is to be approved of by the professor in

whose department the thesis is selected. Thesis subjects should be selected not later than the middle of the first semester, and preferably during the Junior year so as to allow plenty of time for work.

Theses are to be handed in two weeks before the close of college.

AMERICAN PHARMACEUTICAL ASSOCIATION PRIZE

The Senior student attaining the highest general average in his college work will be awarded a year's membership in the American Pharmaceutical Association.

EMPLOYMENT.

The course of lectures has been so arranged as to permit those who desire it to devote a portion of their time to employment.

The Secretary will keep a register of students seeking such employment, and will give every assistance possible in procuring it for them

ATHLETICS.

The Faculty encourage athletic sports for their value in developing the body, furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise. One of the finest athletic fields in Southern California is on the campus, as well as a gymnasium completely equipped.

Students of the college in good standing are eligible to places on the football, baseball and track teams of the University.

Discipline and Good Order. All students are expected to observe the principles of good conduct and order while attending the College, and plain infractions of the rules will be referred to the Executive Committee of the Faculty, with recommendation of reprimand, suspension or expulsion.

Suggestions to Prospective Students. It would be to the advantage of students if they would matriculate a few days in advance of the opening exercises, secure boarding places, and fulfill the entrance requirements, so that their studies may not be interrupted in the beginning.

Board and Lodging. Good board and lodging vary in prices from three and a half to six dollars per week. Rooms for those who wish to board and lodge themselves will cost from six to ten dollars a month. By forming boarding clubs students may reduce the cost of board to two dollars a week.

A list of desirable rooms and boarding places may be obtained by addressing the Young Men's and Young Women's Christian Association of Los Angeles, or by inquiring at these organizations.

FEES AND EXPENSES.

Tuition Fees. The tuition fee for each year is eighty-five dollars. The payment of this fee entitles the purchaser to one continuous course of lectures and laboratory instruction in all departments. The tuition fee covers all drugs, chemicals and other materials (with the exception of a few expensive drugs and chemicals) consumed by the student in the laboratories.

Special students may, by permission of the faculty, take any part of the course at a proportionate tuition fee, providing that such fee shall not be less than twenty-five dollars.

Laboratory Deposit. Chemical and pharmaceutical apparatus and supplies, together with microscopes and other implements required in the work of the course are furnished by the College without expense to the student, but breakage or damage to apparatus must be paid for, and for this reason each junior or senior student is required to deposit fifteen dollars with the Secretary. This deposit, or such portion of it as is not required for the specified purpose, will be refunded at the close of the term.

A diploma fee of ten dollars will be required.

Payment of Fees. All fees must be paid at the beginning of the term. Where this is impossible, the Laboratory Deposit and at least one-half of the tuition must be paid upon entering the class. The balance of tuition to be secured by note to be paid sixty days from date of matriculation.

All fees must be paid before the final examinations are taken.

Special Students. Students may matriculate for any separate course. Medical students will find a systematic instruction of pharmacy an excellent foundation for a medical course. The instruction offered in this school of pharmacy will give a working knowledge of chemistry as is applied in the engineering and metallurgical industries.

CORRESPONDENCE.

Letters of inquiry will receive careful and prompt attention. Address all communications to College of Pharmacy, 35th Street and Wesley Ave., Los Angeles, California.

DEPARTMENTS OF INSTRUCTION

PHARMACY.

Professors W. T. Taylor and Arthur R. Maas.

JUNIOR YEAR—Eight hours per week.

The lectures of the Junior year will treat of the history of the Pharmacopoeia. Weights and measures, percentage solution and the arithmetic of dispensing and manufacturing pharmacy, owing to their importance, will be considered at length. Specific gravity and specific volume will be taught by demonstrations, using the various apparatus for the purpose, accompanied by a thorough explanation of each. Heat will next be considered, then the operations wherein heat is used; evaporation, distillation, sublimation, dessication, exsiccation, etc. This will be followed by a discussion of the preservation of crude drugs and their preparation for manufacturing purposes; then the operations of decantation, filtration, clarification, maceration, infusion, decoction and percolation.

Alternating with the subject of operative pharmacy, the galenic preparations will be critically studied; while they will be discussed from the standpoint of their several classifications, such individual preparations as merit it will be given special

consideration, the object being to familiarize the student with the reasons for each step taken in the manufacture of the different preparations.

SENIOR YEAR—Eight hours per week.

The lectures of the Senior year will embrace the study of the inorganic and organic acids and the salts of the different metallic bases; the commercial methods of preparation will be touched upon, and a special effort will be made to teach the student how to prepare them extemporaneously when necessity arises therefor. In addition to the official compounds, those unofficial ones which through frequency of use merit it, will likewise be treated of.

PHARMACEUTICAL LABORATORY.

This will be followed by a study of alkaloids and the neutral principles of vegetable drugs.

Extemporaneous pharmacy will then be taken up and will include a thorough discussion of dispensing. Facsimiles of physicians' prescriptions will, by means of the stereopticon, be thrown upon a screen, and the class drilled in reading those that are difficult to read. Chemical and pharmaceutical incompatibilities will be taught, and best methods discussed for overcoming same.

Manufacturing Pharmacy. Visits are made to several large manufacturing establishments where the preparation of pills, tablets, fluid extracts, etc., are studied at length from a manufacturing standpoint.

MATERIA MEDICA—PHARMACOGNOSY.

Professor C. W. Hill.

This course consists of one lecture or recitation and one laboratory exercise of two hours per week, and will present the subject in as broad, yet concise form, as possible. It will be confined to that instruction which will be of greatest benefit to the student when the course is completed, giving larger consideration to those drugs of animal or vegetable origin which in commerce are most frequently met with.

The subject will treat first of those drugs of animal derivation, and will thence proceed to give consideration to those drugs of Phanerogamic and Cryptogamic origin. The lessons and lectures in *Materia Medica* will be based upon the pharmacopoeia; at the same time due observation will be given to those remedies which are unofficial. The order in which these agents will be taken up will be based upon a commercial classification, studying first the roots, which will be sub-classified according to analogous properties; thence continuing with Rhizomes, Barks, Flowers, Fruits, Seeds, etc. A prominent feature of the course will be found in the concurrent lecture system of instruction.

Instruction will be given two hours per week in Pharmacognosy, by lectures, as well as by recitations, quizzes, home study and examination of drugs—all these will be given with the view of enabling the student the more readily and thoroughly to identify the drug and give judgment as to quality.

The subject will be presented as follows: 1st—Drugs of animal origin. 2nd—Vegetable drugs.

Treating first the Cryptogams and next the Phanerogams.

Each drug will be considered as to its nature, origin, commercial and botanical relation, and microscopical structure, active principles, therapeutic action, doses, etc.

Adulterations, admixtures and substitutions will be thoroughly discussed.

CHEMISTRY.

Professor Laird J. Stabler.

JUNIOR YEAR—General Chemistry.

Two lectures or recitations and six hours in the laboratory each week for the year.

A course of lectures and demonstrations designed to be an introductory course in general chemistry, including a consideration of the principles governing chemical action and a description of the properties of the various elements and their compounds, as well as a drill in the meaning and use of symbols in chemistry, formulae and equations. Special emphasis is placed on chemical facts involved in the daily work of a pharmacist.

Junior Laboratory Course. The student is provided with a complete equipment of apparatus for qualitative analysis. During this course, a detailed study of the chemical and physical properties of the non-metals and their more important compounds is made and practical instructions in qualitative and volumetric analysis is given. Particular attention will be given to the separation and identification of the compounds of the United States Pharmacopoeia, together with tests of purity.

General Inorganic Chemistry. During the first part of the year the student prepares the more important elements and their compounds, making a careful study of their chemical and physical properties.

Qualitative Analysis. This course follows the course in General Inorganic Chemistry. It is a study of the methods of separation and identification of the principal bases and acids. In this work the identity and purity tests of the Pharmacopoeia are studied. The student analyzes a number of compounds unknown to the student, for bases and acids and makes tests for impurities in pharmaceutical and commercial chemicals.

SENIOR YEAR.

Organic Chemistry—Toxicology—Urine Analysis. Two lectures or recitations and six hours each week throughout the year.

Organic Chemistry. The course will cover the whole field of this branch which is so important to the pharmacist. Special attention will be paid to those compounds which are of pharmaceutical value, including synthetical and medicinal preparations. The following subjects are studied with care: Hydrocarbons, alcohols, ethers, compound ethers, aldehydes, glycerin, fats, soaps, oils, carbohydrates, organic acids, amines and amides, aromatic bodies, resins, albuminoids, cyanogen compounds, alkaloids, etc. Some of the important chemical operations occurring in nature will receive attention such as combustion, decay, fermentation and putrefaction.

Laboratory Work in Organic Chemistry. The laboratory work will consist of the preparation of typical organic preparations

illustrating the general reactions involved in organic chemistry. Among the preparations made are ether, chloroform, iodoform, acetic ether, nitrous ether, acetanilide, methyl salicylate, etc.

Quantitative Analysis. An introduction to the underlying principles of gravimetric and volumetric analysis. Attention is paid to the standard "Volumetric Solutions" of the Pharmacopoeia.

Toxicology—Laboratory Course. The course will include lectures and practical laboratory work in the identification of the common poisons and also the methods of separating them from various complex mixtures.

Urine Analysis. The course will consist of lectures on the normal and pathological constituents of urine. In the laboratory the qualitative and quantitative estimation of sugar, albumin, urea, etc., will be studied, as well as microscopic examination of the sediment.

Food and Drug Analysis. The latter part of the Senior Year will be given over to Food and Drug analysis. The course will consist of lectures and laboratory work. Each student will be required to make a number of assays of U. S. P. preparations and also to examine food products for preservatives and adulterants. The official methods of analysis of the Department of Agriculture will be used.

BOTANY AND MICROSCOPY.

Professor Ulrey.

Assistant Professor Life.

Botany. The courses in Botany are planned with reference to the needs of the pharmacist. Since most drugs are parts of plants or plant-products a thorough knowledge of plant life is necessary to those whose business requires the dispensing of drugs.

Junior Court. The full year is devoted to the study of seed-bearing plants: (1) The parts of the flower, leaf, root and stem

are studied with reference to classifying plants and learning the names of representatives of each of the more important families. (2) The microscopic structure of the parts of the plant is then studied to become familiar with the kinds of cells found in the stem, root and leaves preparatory to the study of pharmacognosy. (3) A study is made of the manner in which drug products are produced by the life processes and habits of plants. The production of resins, oils and other vegetable substances is considered.

Senior Course. During the senior year the non-flowering plants are studied; (a) Algae and Fungi (Thallophytes); (b) Mosses and Liverworts (Bryophytes); (c) Ferns and their allies (Pteridophytes). Most of this course consists of a microscopic study of typical plants representing the groups with a series of lectures dealing with the meaning of facts observed in laboratory study. Special attention is given to those plants like the fern, club mosses, the so-called "Irish Moss," ergot, etc., which are of importance to the pharmacist.

In each of the courses the student is furnished a compound microscope, hand lens and dissecting instruments.

The lecture room is supplied with a complete electrical projection apparatus by which microscopic objects can be thrown on the screen before the class.

Microscopy. Throughout the course of Botany the student has learned the use of the microscope, its parts, the methods of preparing slides for temporary use, etc.

In this course the student examines and uses the different kinds of microscopes and accessories. He learns how to measure microscopic objects (micrometry) and to prepare permanent slides of tissues and other objects. The laboratories are fitted up with a complete set of apparatus for photographing microscopic objects; ten styles of compound microscopes of foreign and American makes; four styles of microtomes; camera lucida; condensers; micrometers and several hundred prepared slides for use in class work and demonstration.

PHYSIOLOGY, HYGIENE AND SANITARY SCIENCE.

The action of drugs on the body is a subject requiring more attention from the pharmacist than formerly. He is responsible

both morally and legally for the results of his sale of drugs.

Therefore a knowledge of the human body and its functions becomes an absolute necessity to the present-day pharmacist.

PHYSIOLOGY.

I. *Junior Course.* The first semester is given to a study of the human body, its parts and the way it carries on the functions of digestion, circulation, etc.

All the systems of organs are considered and each of the fundamental processes is studied.

The semester's work prepares the student to understand to some extent what action drugs may have on the body.

HYGIENE AND SANITARY SCIENCE.

II. *Senior Course.* Second Semester.

HYGIENE.

The care of the body as to the use of foods, drink, fresh air, exercise, etc., comprises the first part of the course. A consideration of the methods by which one may enjoy health as a result of right living and the injury likely to result from wrong habits.

The place of drugs in every-day affairs as they are related to hygiene.

SANITARY SCIENCE.

The nature of bacteria, methods of growing them and their place in nature. A sufficient acquaintance with these microscopic plant forms is attained to enable the pharmacist to know which bacteria are beneficial and which disease producing; what conditions are harmful and what not so; how to prevent decay of foods, etc., methods of sterilization and disinfecting. The water and milk supply and other foods receive special study with reference to the bacteria they contain.

The course gives sufficient practice in handling bacteria to avoid needless fear of them and to guard against the danger of infection where disease producing forms are likely present.

TOXICOLOGY.

Professor Arthur R. Maas.

This course consists of lectures to the Senior Class in which the different kinds of poisons are studied, the classes of antidotes, the various body conditions which modify the effects of poisons, and the different channels by which poisons may enter the body. Later each poison is taken up in detail and studied as to its lethal dose, symptoms, antidote and treatment. Attention is given to Posology, doses of potent drugs beings given special emphasis.

PHARMACAL JURISPRUDENCE.

Mr. Howard A. Peairs.

The course consists of lectures to the Senior Class in which the rights and responsibilities of pharmacists and the laws affecting the same are taken up and fully discussed. The Constitution of the United States and State Constitutions are explained, then Federal and State law, international law, etc. The statutes regulating the practice of Pharmacy, with their constitutionality, are discussed. The legal limits of Pharmacy, right to practice, legal qualifications of pharmacist, etc., are taken up, together with the liability of pharmacist and manufacturing pharmacist.

COMMERCIAL PHARMACY.

Mr. L. Schiff.

This course consists of lectures on topics in connection with the conduct of the business of Pharmacy, such as Buying, Selling, Insurance, Advertising, Bookkeeping, Correspondence, and General Business Building.

FIRST AID TO THE INJURED.

C. L. Lowman, M.D.

This course is planned to meet the needs of the Pharmacist who is often called upon to render first aid in accidents and do general emergency work.

The subjects touched on will be Wounds and their treatment. Burns, Fractures and Dislocations, Poisoning, Resuscitation in unconscious conditions, Bandaging, etc.

COLLEGE OF THEOLOGY

CALENDAR

1910.

October 3.....Registration.

October 4.....Lectures begin.

1911.

February 7, 8, 9.....Mid-Year Examinations.

February 10.....Registration for Second Semester.

February 13.....Lectures begin.

June 1 to 7.....Final Examinations.

Vacations and Special Days uniform with the College of Liberal Arts.

HISTORICAL

The Maclay College of Theology was founded about twenty years ago by State Senator Charles Maclay in a generous endowment of lands in the San Fernando Valley. Rev. R. W. C. Farnworth, presiding elder of the Los Angeles District, was its first dean, the faculty being completed by the appointment of Reverends Fletcher B. Cherington and James Blackledge. On the death of Dean Farnsworth, the Rev. R. S. Maclay, D.D., the veteran missionary from the Orient, was called to the headship of the college which bears his name. When advancing years and failing strength caused the resignation of Dr. Maclay, the Rev. George Cochran, D.D., was called to succeed him.

Through all this period the college had been doing excellent work, coming about the time of the succession of Dr. Cochran

from its first home in the San Fernando Valley to the immediate neighborhood of the College of Liberal Arts in Los Angeles.

In the hard times of 1893 the trustees thought it expedient to close the Maclay College until its resources should warrant the continuance of its work. At the session of the Southern California Annual Conference in 1907, on the urgent request of the conference, the decision was made to resume work in theology, and its present dean, Rev. E. A. Healy, D.D., was appointed.

The intimate relation of Maclay College to the College of Liberal Arts is of great advantage to both, appearing in the convenience of location on the same campus, and the interchange of credits where subjects are common to the two colleges.

It is the aim of the College of Theology to do all that is possible to furnish the churches of our constituency with preachers who shall be at once scholarly and evangelical, and pastors who shall be apt and successful in their difficult work.

In pursuance of this aim the following courses are arranged with the specified conditions of admission:

1. *The Degree Course.* A three years' course for students who have obtained the A.B. degree. The completion of this course will entitle the graduate to the degree of Bachelor of Divinity.

2. *The Diploma Course.* This is also a three years' course, open to students who have the equivalent of junior standing in the College of Liberal Arts. The Maclay College Diploma will be granted to graduates in this course.

3. Applicants will be admitted as special students to classes that, in the judgment of the Faculty, they can enter with advantage, and certificates will be given for all subjects satisfactorily taken.

Admission. A license to preach will be sufficient credential. Those not so qualified may present a certificate from their pastor as to their fitness to study for the Christian ministry, or for other religious work.

COURSES,
Diploma.

Degree.

Certificate.

JUNIOR CLASS.

GREEK-ENGLISH COURSE.

CLASSICAL COURSE.

ENGLISH COURSE.

Church History.
Practical Theology.
Greek (Elementary).
Hebrew.
Biblical Introduction.
Systematic Theology.
English Literature and Expression.

Church History.
Practical Theology.
Greek (Elementary).
Biblical Introduction.
English Literature and Expression.

Church History.
Practical Theology.
Biblical Introduction.
English Literature and Expression.
Systematic Theology.

MIDDLE CLASS.

Church History.
Practical Theology.
Systematic Theology.
Greek (N. T.)
Hebrew.
English Literature and Expression.

Church History.
Practical Theology.
Systematic Theology.
Greek Testament.
English Exegesis.
English Literature and Expression.

Church History.
Practical Theology.
English Exegesis.
Systematic Theology.
English Literature and Expression.

SENIOR CLASS.

Systematic Theology.
Historical Theology.
Pastoral Theology.
Greek (N. T.)
Hebrew.
Apologetics.
Sociology.

Systematic Theology.
Practical Theology.
Greek Testament.
English Literature and Expression.
Sociology.

Systematic Theology.
Practical Theology.
English Exegesis.
English Literature and Expression.
Apologetics.
Sociology.

FEES AND EXPENSES

Tuition in Maclay College is free.

A registration fee of \$12.00 a semester is charged.

Liberal arrangement is made with the College of Oratory for the courses in Elocution, including special training in Bible and hymn reading.

Lectures by men and women of eminence in special fields are frequently given in the Assembly Hall and are free to all our students.

Students enrolled in either the degree or diploma courses will be allowed three hours in each semester, free of charge, in the College of Liberal Arts.

Free residence in the Maclay College Building is provided for a limited number. Rooms will be assigned in the order of accepted applications.

Numerous charges in the vicinity of Los Angeles find pastors among our students, and our District Superintendents are glad to make such arrangement where it is mutually satisfactory.

An information and employment bureau is maintained by the University Y. M. C. A., which is very helpful to those who wish to support themselves while in attendance at college.

Any additional information promptly given on application to

E. A. HEALY, Dean, Maclay College,
University, Los Angeles, Cal.

DEPARTMENTS OF INSTRUCTION

Apologetics. The whole subject of the defensive facts and proofs of Christianity is included in this general term. Primarily it is found in the courses in the English Bible, given by Professor Hill, including Hermeneutics and Christian Evidences. Historical and Systematic Theology contribute to the full equipment of the student in this wide field.

BIBLICAL INTRODUCTION.

CHRISTIAN EVIDENCES—FOUNDATIONS OF FAITH.

Professor Hill.

This course will take up those phases of thought and facts of life that confront the student of today. The idea of God and the divine immanence; man and the legitimacy of the religious principle in the human constitution; the Bible as a revelation of God's relation to, and purpose concerning man's life and destiny; the facts of conversion and the history of Christianity as witnesses to the divine origin of the system; and a consideration of the assumptions of modern cults which oppose or offer themselves as substitutes for Christianity.

CHURCH HISTORY.

Professor Coultas.

In this subject the work begins with the Life and Times of Christ, and progresses through the Apostolic, Mediaeval and Middle Ages to Modern times.

The history of doctrine is traced from the beginning; special care is taken with the great movements of the Church, such as the Reformation, the Wesleyan Revival, and the Church in America, including the history of American Methodism. Bishop Hurst's volumes are made a basis, but wide reference is had to standard authors.

EARLY ENGLISH BIBLE.

Professor Dixon.

Lectures on Early English translations, with readings from the first and the earlier English Gospels are given by the head of the Department of English, and afford a rare opportunity in a realm of great interest.

ENGLISH LITERATURE AND EXPRESSION.

This very important part of a preparation for the ministry is given a prominent place. In addition to the full courses in the College of Liberal Arts, special opportunity for study and

training in interpretation and expression is afforded in the College of Oratory, which is conveniently located near Maclay College.

NEW TESTAMENT GREEK.

Professor Owen.

Those who have had no previous training in the Greek language will register for course 1 in the College of Liberal Arts.

2. The Gospel according to John will be studied as a basis for mastering the language of the New Testament. Harper and Weidner's Introductory Greek Method will be used throughout the year. *Two hours, both semesters.* 2:00 Tuesday and Thursday.

3. The Gospel according to Luke; selection from the Acts; Epistle of James, Intensive Grammar and Syntax drill; word derivation and synonyms. *Two hours* (hours to be arranged).

HEBREW LANGUAGE AND HISTORY.

Professor James Blackledge.

The main object of instruction in this department is the securing of a good reading knowledge of the Hebrew text; hence during the first two years of the course special attention is given to oral class-reading exercises—the fundamental principles and rules underlying the Hebrew language—the origin of grammatical forms, with some exegetical study during the second semester of the second year.

A greater part of the first two years is devoted to the study of the text of the Pentateuch. During this time the student is requested to look up the inscriptions of Israel's neighbors—the Assyrians and Babylonians—in the library, with the view of aiding in the study of the text.

The principal object of our method of instruction is, by constant review, and frequent composition exercises, to make an otherwise dry study, as interesting as possible. During the latter half of the course will be taken up the studies in Messianic prophecy, with more exegetical work; exegetical studies in the minor prophets, and a critical study of the Book of Job. During the last semester of the course there will be grammatical,

critical and exegetical studies of selections from the Book of Psalms. During the entire course occasional lectures will be given on the Old Testament and related subjects.

The effort is, not to read meanings into the passages considered, but to get the original author's exact viewpoint. This is often a most difficult task and calls for modern scientific methods of application in exegesis. To obtain the exact idea intended by the author, the interpretative principles, methods and rules must be learned and applied. Some knowledge of the Greek language will be helpful. Two hours throughout the year. Tuesday and Thursday (hours to be arranged).

Prerequisite, Bible 1, 2, 3, 4.

HOMILETICS.

Doctor Hughes.

Kern's "The Ministry to the Congregation" is made the basis for instruction in this chief work of the preacher in connection with the subject of Pastoral Theology.

Dr. Hughes gives one lecture a week on this important subject, and is attracting, in addition to the regular theological students, many ministers who have been long in the pastoral work. His style is strong and clear and holds one's interest to the last sentence. His range of subjects covers the whole field of the pastor's life and work. The place of Pastoral Theology; the history, theory, and practice of preaching; the call to the ministry; the preparation to be added to nature's qualifications for the work; the history, constitution and development of the church; what the church does for the pastor, and the pastor's obligation to the church; relation of children to the church, and of the pastor to the children; the minister and his brethren; the pastor and the Sunday school; the pastor and the literature of the church; his use of books and libraries; methods and means of worship; pastoral visitation; the institutional church; the minister and social problems—such themes and many others, treated in the trenchant style of Dr. Hughes, comprise a course of living interest and great value. Christian workers and others interested are admitted to these lectures.

THE HISTORY OF CHRISTIAN MISSIONS.

Professor Coultas.

This course requires two semesters. The first begins with Paul, A. D. 46, and continues to Carey, A. D. 1792. It briefly considers the condition of the world when Paul and Barnabas leave Antioch in the year 46, and studies the missionary spirit that manifested itself to Carey's time under the following agencies: promiscuous, governmental, papal, monastic, mendicant orders, military power, Jesuits, colonization, and denominational. The second semester deals with modern missions, their past, present and promise.

Lectures on Comparative Religions are given to classes in this subject.

SOCIOLOGY.

Professor Hunt.

Principles of Sociology. Elements of social theory. The structure, development and activities of human society. A comprehensive study of the social process and social ends, with frequent application to concrete conditions. *Three hours, first semester.*

Social Theories. A comparative study of the writings of leading sociologists of the present day. Extensive library work and frequent student reports are among the requirements. *Three hours, second semester.*

With permission of the Dean and the Department of Sociology, students may substitute for Social Theories:

Charities and Corrections. Studies in social pathology, poverty and philanthropy, the dependent classes, public and private administration of charities. The class visits charitable and reformatory institutions in Los Angeles and vicinity to study conditions and methods of social betterment. *Three hours.*

SYSTEMATIC THEOLOGY.

Dean Healy.

In the Junior year the text-book is "The Christian Faith" (Curtis). In the middle year the "System of Christian Doctrine" (Sheldon). While these works form the basis of study for the students out of class, a wide reference to authors, old and new, is encouraged, and all is supplemented by lecture and question in the class-room hour.

In the Senior year research in the library, and current theological literature, with essays on assigned subjects, and a continued attendance in the lecture-room will complete the work in this important field.

THE PREPARATORY SCHOOL

· CALENDAR, 1910-1911.

1910.

- September 12-15.....Entrance Examinations and Registration for First Semester.
- September 16.....Recitations begin.
- November 24, 25.....Thanksgiving Vacation.
- December 19.....Christmas Vacation begins.

1911.

- January 1.....Christmas Vacation ends.
- January 26.....Day of Prayer for Colleges.
- January 30-February 3.....Mid-Year Examinations.
- February 10.....Instruction for Second Semester begins.
- February 22.....Washington's Birthday.
- March 27-April 2.....Spring Vacation.
- June 7-13.....Final Examinations.
- June 14.....Graduation Exercises.

THE PREPARATORY SCHOOL.

The Preparatory School is maintained in connection with the College of Liberal Arts. All of the instruction in the Preparatory School is under the supervision of the college faculty, thus insuring the best preparation for entrance to college. The students enjoy all the general advantages open to students in the College, including library, lectures, laboratories, religious and social privileges.

While the work of this school is mainly that of preparing students directly for the College, yet without lessening the work in this direction, the authorities realize the importance of giving increased attention to the large number of young people who desire academic instruction, but do not wish to devote the necessary time and means to secure a collegiate education. For this large and worthy class, the school purposes to provide sufficient facilities, so that in the limited time at their command they may acquire some preparation for their future work.

Requirements for Admission.

Applicants must have finished work equivalent to that required for admission to the high schools. They must show evidence of fitness to begin the work of the classes in the school. Persons who wish to take a partial course, or to select their studies, can enter the preparatory school without a formal examination, and pursue such subjects as they may be prepared to take.

Registration.

The method and regulations in registration are the same as those in the College of Liberal Arts.

Absence from Exercises.

The rules and regulations concerning absences from required exercises are the same as in the College of Liberal Arts.

ASSEMBLY.

The Assembly period is 11:45 to 12:10 Monday, Tuesday, Thursday and Friday of each week. Attendance is required. Wednesday of each week, at the chapel period, the Young Men's

and the Young Women's Christian Associations hold their respective devotional services, to which the students are cordially invited.

Reports.

Reports of standing are sent to the parent or guardian of all students each month. The Faculty desire the co-operation of parents in their efforts to maintain a high grade of scholarship and deportment.

Graduation and Diplomas.

The Preparatory School has a special evening set aside in commencement week for its graduation exercises.

Each student who completes one of the regular courses of study will be granted a diploma.

Literary Societies.

The Webster Literary Society is composed of young men who meet each week for training in public speaking.

The Willard and Annesley Literary Societies are composed of young women who meet each week for training in literary work.

The Declamation Prize.

A prize of ten dollars, offered to the student who wins in contest in declamation, was awarded in 1909 to Katherine Chang.

Rooms and Board.

Students are required to submit to the Faculty a statement of the places where they desire to room and board, and must secure their consent in each case.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to school life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the school for want of money.

GENERAL INFORMATION.

For general information concerning location of school, religious privileges, library and reading room, the museum and the science laboratories, athletics and the gymnasium, see under College of Liberal Arts.

FEES AND EXPENSES

Tuition, per semester, in advance	\$ 40.00
Tuition per year (two semesters) if paid in advance.....	80.00
Tuition, for six to ten hours, per semester.....	30.00
Tuition, for five hours, or less, per semester.....	20.00
(Hours as used above means so many hours per week.)	
Athletic fee, required of all students.....	2.00
Gymnasium and Physical Education taken without other studies, per semester	8.00
Registration fee included in above, but not subject to rebate	5.00
Diploma fee	5.00
Laboratory fees—	
Chemistry	8.00
Physics	4.00
Botany	4.00
Zoology	4.00

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage is refunded at the end of the year.

The children of ministers in the regular work of any evangelical denomination may have their tuition reduced to one-half the regular rate.

A discount of ten per cent of the tuition will be allowed when two or more students enter from the same family.

No rebate will be allowed for less than one-half a semester's enforced absence.

For further information address

PRESIDENT GEORGE F. BÖVARD,
Los Angeles, California.

COURSES OF STUDY

The regular courses of study are four in number, any one of which is designed to prepare students to enter the College of Liberal Arts, or institutions of similar standing. A student who has completed one of these courses is admitted to the College without examination.

	A	B	C	D
1st YEAR	5 ENGLISH, 2:00 5 LATIN, 8:55 or 1:05 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 2:00 5 LATIN, 8:55 or 1:05 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 2:00 5 LATIN, 8:55 or 1:05, or GERMAN, 9:55 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 2:00 5 GERMAN, 9:55 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05
2nd YEAR	5 ENGLISH, 1:05 5 LATIN, 8:55 5 ANC. HIST., 2:00 4 BOTANY, Recit. 10:50 M.W., Lab. 9:55, M.W. 9:55-10:50 T.Th. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 1:05 5 LATIN, 8:55 5 ANC. HIST., 2:00 4 BOTANY, Recit. 10:50, M.W., Lab. 9:55 M.W. 9:55-10:50 T.Th. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 1:05 5 LATIN, 8:55, or GERMAN, 10:50 4 ZOOLOGY, Recit. 2:00 M.W., Lab. 2:55 M.W., 2:00-2:55 T.Th. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 1:05 5 GERMAN, 10:50 5 ALGEBRA, 9:55 5 DRAWING, 8:55-12:10 M.W. 1:05-3:50 M.T.W. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05
3rd YEAR	5 GREEK, 10:50 5 LATIN, 2:00 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55	5 ENGLISH, 8:00 5 LATIN, 2:00 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55	5 Elective ③ 5 CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55 W.Th. 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55	5 Elective ③ 5 CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55 W.Th. 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55
4th YEAR	5 GREEK, 9:55 5 LATIN, 8:00 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F., or CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55, W.Th. 5 Elective ④	5 Elective ④ 5 LATIN, 8:00 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F., or CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55, W.Th. 5 Elective ④	5 Elective ④ 4 BOTANY, Recit. 10:50 M.W., Lab. 9:55 M.W. 9:55-10:50 T.Th. 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F. 5 Elective ④	5 ① MATHEMATICS A, 8:00 T.W.Th. 5 DRAWING, 8:55-12:10 M.W., 1:05-3:50 M.T.W. 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F. 5 Elective ④

NOTE — The figures denote the number of class recitations (or their equivalent in laboratory work and drawing) per week.

① Mathematics A, includes Trigonometry, Solid Geometry and a review of Algebra.

② Students who have received credit for two years of German, and who intend to take up German 2 in their freshman year in College, must review the second semester of German 1 (College) in their last semester in the Preparatory School.

③ Electives in the Third year are English, Latin, German.

④ Electives in the Fourth year are Greek, Latin, German, French, Spanish, English, Zoology, Botany, Mathematics A, Physics, Chemistry, Algebra, Anc. Hist.

DEPARTMENTS OF INSTRUCTION

ENGLISH.

FIRST YEAR.

First Semester.

1. *Reviews of Technical Grammar, with practice in Writing Compositions.* Three hours a week.
2. *Classics.* Two hours a week.

Second Semester.

1. *Rhetoric and Themes.* Two hours a week.
2. *Classics.* Three hours a week.
 - A. Irving: Selections from Sketch Book.
 - B. Hawthorne: Tales of the White Hills.
 - C. Lowell: Vision of Sir Launfal.

SECOND YEAR.

First Semester.

1. *Rhetoric: Gardiner, Kittredge and Arnold.* One hour a week.
2. *Themes:* Special attention to rhetorical structure. One hour a week.
3. *Classics.* Three hours a week.
 - A. Scott: Lay of the Last Minstrel.
 - B. De Coverley Papers.
 - C. Coleridge: Ancient Mariner.

Second Semester.

1. *Rhetoric: Gardiner, Kittredge and Arnold.* One hour a week.
2. *Themes.* One hour a week.
3. *Classics.* Three hours a week.
 - A. George Eliot: Silas Marner.
 - B. Scott: Ivanhoe.
 - C. Shakespeare: Merchant of Venice.

THIRD YEAR.

First Semester.

1. *Rhetoric: Blaisdell.* One hour a week.
2. *Themes: Exposition and Description.* One hour a week.
3. *Classics.* Three hours a week.
 - A. Carlyle: Essay on Burns.
 - B. Burns: Selected Poems.
 - C. Tennyson: Idylls of the King.
 - D. Shakespeare: Midsummer Night's Dream.

Second Semester.

1. *Rhetoric: Blaisdell.* One hour a week.
2. *Themes: Narration and Description.* One hour a week.
3. *Classics.*
 - A. Macauley: Essay on Warren Hastings.
 - B. Lincoln's Inaugurals and Webster's Gettysburg Speech.
 - C. Milton's Minor Poems.
 - D. Shakespeare: Julius Caesar.

FOURTH YEAR.

First Semester.

1. *Painter's Elementary Guide to Criticism.* One hour a week.
2. *Themes: Exposition and Argument.* One hour a week.
3. *Gayley and Young's Principles and Progress of English Poetry.* Three hours a week.
 - A. Outline-History of English Literature.
 - B. Chaucer, Gray, Wordsworth, Shelley, Keats, Byron, and Browning.

Second Semester.

1. *Themes: Exposition and Argument.* One hour a week.
2. *Classics.* Four hours a week.
 - A. Burke: Speech on Conciliation.
 - B. Webster-Hayne Debate.
 - C. Poe: Poems and Tales.
 - D. Shakespeare: Macbeth.

ENGLISH BIBLE.

Two courses of one hour each are offered for students in the Preparatory School—Old Testament, 10:50 Tuesday, first semester; New Testament, 10:50 Tuesday, second semester.

GERMAN.

First Year.

Collar's Beginning German. This text book provides the material for the first year's course. It comprises studies in pronunciation, grammar, drill on the forms, elementary conversation, and various anecdotes and poems for translation and memorizing. Further interesting reading and material for conversation and composition is taken from Guerber's Maerchen und Erzählungen.

Second Year.

The grammar is finished and reviewed. Various modern German stories, poems, and plays are read and reproduced, both orally and in the form of written exercises.

The class work is conducted mainly in German, and the ability to read accurately and fluently and express simple thoughts in spoken and written German is required.

GREEK.

First Year.

White's First Lessons is used throughout the year. The aim of the first year's work is thoroughly to acquaint the pupil with forms.

Second Year.

During this year the first four books of Xenophon's Anabasis are translated. Daily practice is given in sight reading. Pearson's Greek Prose Composition is used throughout the year. The work is made the basis of a thorough drill in grammar. Goodwin's Greek Grammar is used for reference.

Third Year.

Books I-IV of Homer's Iliad are read and translated. Practice in sight reading is given daily from Books V and VI. Scansion, forms, syntax and mythology are given special attention. Pearson's Greek Prose Composition is used throughout the year.

Note. Beginning classes in Greek are carried on in the College Department in which the work outlined above is covered in two years. Preparatory students who show special ability and strength in this subject are admitted to these College classes and are advised to avail themselves of this privilege. The same credit (three units) is given to Preparatory students in these classes as is granted in the Preparatory Department for the three years work.

HISTORY.

The work in History is carried on by means of text-books, lectures, essays, and library work. Constant reference is made to the atlas and dictionary, maps are drawn, essays required, and the topical method is used for special subjects. Full and carefully kept note-books are required in all the subjects in this department.

1. *Ancient History.* Greek and Roman History. *One year.*
2. *American History and Civics.* *One year.*

LATIN.

First Year.

The aim of the first year's work is to attain an accurate pronunciation, a thorough knowledge of all the regular forms of declension and conjugation, together with the simpler principles of syntax, and a vocabulary of about eight hundred common words.

Second Year.

Four books of Caesar's Gallic War are read. Regular forms are reviewed and essential irregular forms are learned in a systematic study of Latin grammar. There is regular practice in oral or written translation into Latin of exercises based on the text read, and slight translation is an important part of the year's work. Some attention is given to subject matter.

Third Year.

In the reading and interpretation of six of Cicero's orations the time is equally divided between language and subject matter. The grammar is thoroughly reviewed in regular oral or written composition based on the text. An attempt is made to gain a definite knowledge of Cicero and his age, of the Roman government in Cicero's time, and of the city of Rome. The simpler letters are read at sight.

Fourth Year.

The first six books of Vergil's Aeneid are read and interpreted. A special effort is made to approach the work as poetry. Prosody, figures of speech, mythological references, and poetical constructions are studied. Metrical reading is insisted upon. An idea of the Aeneid as a whole is gained by the sight reading of portions of the last six books. Two days each week are occupied during the first semester in a review of syntax and in prose composition.

MATHEMATICS.

The aim of the course in Mathematics is to cultivate the habits of independent reasoning, of accuracy of work, of precision and clearness in the statement of conclusions and the reason upon which they depend. First in importance is the intellectual training that makes the mind a ready and keen tool; second, the orderly acquisition of facts. Absolute thoroughness and work that increases in amount and difficulty with the student's increasing capacity, are required. The student's efficiency is measured by his power to do. Throughout the course written reviews and test examinations are frequent.

Algebra, First Year.

Wentworth's New School Algebra, through Quadratics. Special emphasis is placed on factoring and on the solution of equations. The object of the study is not only to acquire a knowledge of the subjects required for admission to the leading universities, but to secure the mental discipline for its own sake, and such a drill as looks to the use of the algebraic method in future study.

Algebra, Second Year.

Beman and Smith's Elements of Algebra. A review of the first year's work is taken, and the text book is completed. This work is supplemented by lectures on the theory of algebra, and these form a most important part of the course.

Algebra, Third Year.

Fisher and Schwatt's Higher Algebra, two hours a week. This course is given as an elective for students of marked mathematical ability, and is open only to those who have taken second year algebra.

Geometry.

1. Plane Geometry. One year. Careful attention is given to constructions, clear and logical expression, and above all to the attainment of the power to do original work in geometry. The exercises of the text-book are supplemented by constant suggestions by the teacher for investigations.

2. Solid Geometry, four hours a week, during the first semester.

Trigonometry.

Plane Trigonometry, and a brief study of Logarithms and the solution of the Right Spherical Triangle, four hours a week, during the second semester.

DRAWING.

First Year.

Ten hours a week.

Freehand Drawing: First Semester—Elementary line work from geometric solids and simple natural objects.

Second Semester, advanced line work in pencil from casts and still life, flat wash in black and color.

Second Year.

Ten hours a week.

Instrumental Drawing: First Semester—Linear drawing, simple geometric problems, lettering.

Second Semester, advanced geometric drawing, conic sections, projections.

PHYSICAL TRAINING.

Systematic class work. This consists of vigorous drill with dumb bells, clubs, bar bells, etc., for the men; for the women, general development exercises in walking and running, simple, free movements, recreative games and outdoor sports. Required of all first year students. Four hours a week.

Progressive graded work on various pieces of gymnastic apparatus, mat work and gymnastic games for the men; more difficult free movements, relaxing exercises, mat work, walking, drill, and dumb bells and games in the open air for the women. Required of all second year students. Four hours a week.

SCIENCE.

Biology.

Botany and Zoology, each given as a full course of eight hours per week, for one year. The work in each is a combination of laboratory study, lectures and recitations, with a careful notebook record of the work actually done by the student under the direction of the teacher. The ground covered and the methods employed are such as fully meet the requirements of any college to which the student might desire to go.

Chemistry.

The subject of Chemistry continues throughout the year, and includes all the general principles theoretical and practical of inorganic chemistry, such as given in McPherson and Henderson,

Elementary Study of Chemistry. Recitations and individual laboratory work occupy not fewer than seven hours per week. A special effort is made throughout to develop the scientific habit of thought and to lead the student to observe the chemical changes constantly taking place. In the laboratory each student is furnished with a desk and all necessary reagents and apparatus, and is required to keep a complete record of the work done during the year.

A laboratory fee of eight dollars per semester, and an additional deposit of five dollars is required. The loss by damage or destruction of apparatus will be deducted from the deposit of five dollars, and the balance refunded at the close of the semester.

Physics.

This course is designed to give the student a familiarity with the principal facts, laws and theories of Physics. This is accomplished by the careful study of a text and definite laboratory work for one year.

CATALOGUE OF STUDENTS

COLLEGE of LIBERAL ARTS

The names of students are followed by the designation of their several classes (G., Graduate Student; Sr., Senior; J., Junior; S., Sophomore; F., Freshman; Sp., Special Student); the name of each student is followed also by an abbreviation indicating the degree for which he is a candidate, (A.B., Bachelor of Arts; B.S., Bachelor of Science; A.M., Master of Arts).

Allan, Roy Folger.....	S., A.B.....	Los Angeles
Allen, Anais Julia.....	J., A.B.....	South Pasadena
Allen, Charles Lewis, Jr.....	S., A.B.....	South Pasadena
Allin, Ray Lester.....	F., B.S.....	Pasadena
Adamson, Jessie Alvira.....	F., A.B.....	Los Angeles
Adkinson, Katherine Wiley.....	S., A.B.....	Los Angeles
Amis, Anna Joyce.....	F., A.B.....	Fullerton
Axtman, Leon Gaspard.....	F., B.S.....	South Pasadena
Babcock, Maude Amelia.....	Sp., A.B.....	Los Angeles
Bach, Welcome Lawrence.....	S., A.B.....	Ocean Park
Backstrand, Lillian Jeanette.....	F., A.B.....	Riverside
Baker, Donald McCord.....	S., B.S.....	Los Angeles
Ball, Bessie.....	F., A.B.....	Downey
Barnett, Rex William.....	F., A.B.....	Burbank
Barnhart, Percy Spencer.....	S., A.B.....	Los Angeles
Baxter, Gladys.....	S., A.B.....	Compton
Beach, Everett Charles.....	Sp., A.B.....	Los Angeles

M.D., Baltimore Medical College.

Beal, William Wilson.....	J., B.S.....	Los Angeles
Beall, Harry Hammond.....	J., A.B.....	Los Angeles
Beck, Helen May.....	F., A.B.....	Los Angeles
Behymer, Elsie Olive.....	F., A.B.....	Los Angeles
Bell, Raymond Fred.....	F., A.B.....	Los Angeles
Benson, Martha Faye.....	S., A.B.....	Los Angeles
Berryman, Olive Perkins.....	S., A.B.....	Los Angeles

Bettinger, John Marcus.....	F., A.B.....	Los Angeles
Biddle, Ethel Riggs.....	S., A.B.....	Long Beach
Bien, Beulah V.....	J., A.B.....	Los Angeles
Bigelow, Emma L.....	Sp., A.B.....	Los Angeles
Bishop, Harold A.....	S., A.B.....	Toledo, Ohio
Blackburn, Porter C.....	Sr., A.B.....	Los Angeles
Blair, Ben B.....	F., B.S.....	Los Angeles
Blair, Maurice Guernsey.....	F., B.S.....	Los Angeles
Bley, Florence Marion.....	F., A.B.....	Los Angeles
Blumenberg, Clara.....	F., A.B.....	Los Angeles
Boardman, L. M.....	S., B.S.....	Santa Monica
Bobey, Harry Gausden.....	Sp., B.S.....	Los Angeles
Boller, Gordon.....	Sr., A.B.....	Los Angeles
Boller, Stanley.....	S., A.B.....	Los Angeles
Bonynge, Charles William.....	Sp., A.B.....	Los Angeles
Bosche, Dorothy M.....	F., A.B.....	Los Angeles
Bostwick, Norris.....	F., B.S.....	Los Angeles
Bouelle, Frank August.....	Sp., A.B.....	Los Angeles
Bovard, Edna Georgina.....	S., A.B.....	Los Angeles
Bowers, Chester Herbert.....	G., A.M.....	Los Angeles

A.B., University of Southern California.

Bowers, Evelyn Cummings.....	S., A.B.....	Los Angeles
Bowser, Charles Arthur.....	S., A.B.....	Los Angeles
Bradway, Mark Wilson.....	F., A.B.....	Los Angeles
Bridges, Ruth Gladys.....	S., A.B.....	Los Angeles
Bridges, Sadie Ethel.....	Sr., A.B.....	Los Angeles
Brim, Minnie.....	F., A.B.....	Los Angeles
Brison, Janet Isabelle.....	F., A.B.....	Los Angeles
Brode, Alverda June.....	J., A.B.....	Los Angeles
Brown, Edgar Kapp.....	Sr., A.B.....	Los Angeles
Brown, Frederic Raymond.....	Sr., A.B.....	Los Angeles
Brown, James Lorin.....	J., A.B.....	Los Angeles
Brown, Maggie Jane Eiffel.....	J., A.B.....	Colegrove
Bryan, Luella H.....	Sp., A.B.....	Los Angeles
Buchanan, Genevieve.....	J., A.B.....	Los Angeles
Bunker, Frank.....	F., A.B.....	San Jacinto
Burk, Earl Elihu.....	J., A.B.....	Long Beach
Burleson, Frank Edward.....	S., A.B.....	Los Angeles
Burmester, Huston William.....	F., A.B.....	Muncie, Indiana

Burmeister, Emma Minnie.....	Sr., A.B.....	Los Angeles
Burmeister, Laura Elise.....	S., A.B.....	Los Angeles
Burns, Virginia Collett.....	F., A.B.....	Santa Ana
Burton, Vincent Staub.....	F., A.B.....	Burbank
Cain, Morris A.....	Sr., A.B.....	Santa Ana
Candee, William Horace.....	F., A.B.....	Hollywood
Carlock, DeWitt Clinton.....	F., A.B.....	Los Angeles
Carter, Ray Alden.....	G., A.M.....	Los Angeles

A.B., University of Southern California.

Carrell, Frank Robert.....	J., A.B.....	Gardena
Caster, Grover Valentine.....	F., B.S.....	Whittier
Chadwick, Nina May.....	Sr., A.B.....	Los Angeles
Chamberlin, Albert Frank.....	F., A.B.....	Pasadena
Chandler, Mrs. Edith Gibbs.....	Sp., A.B.....	Los Angeles
Cist, Mary Elizabeth.....	F., A.B.....	Los Angeles
Clardy, Grady.....	S., A.B.....	Santa Ana
Clark, Howard Brink.....	G., A.M.....	Los Angeles

A.B., Hedding College.

Clark, Ralph Waldo.....	G., B.S.....	San Bernardino
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A.B., University of Southern California.

Clark, Stephen Hart.....	G., B.S.....	San Bernardino
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A.B., University of Southern California.

Close, Katherine Margaret.....	F., A.B.....	Los Angeles
Cochran, Ernest Allan.....	F., B.S.....	Los Angeles
Cocks, Edna Agnes.....	J., A.B.....	Los Angeles
Cogswell, Frederick Allen.....	Sr., A.B.....	El Monte
Cohn, Lillian.....	F., A.B.....	Los Angeles
Colgan, C. Genevieve.....	S., A.B.....	Los Angeles
Coller, Helen Amanda.....	S., A.B.....	Los Angeles
Collison, John Clyde.....	Sr., A.B.....	Los Angeles
Cone, Ruby Vernell.....	S., A.B.....	Dinuba
Conlee, Florence.....	F., A.B.....	Los Angeles
Consigny, Venita Ormsby.....	F., A.B.....	Los Angeles
Cook, Clarence W.....	J., B.S.....	Los Angeles
Cook, Florence Marie.....	F., A.B.....	Los Angeles
Cook, Hazel Irene.....	F., A.B.....	Wallingford, Conn.
Cooper, Carl Vincent.....	F., A.B.....	South Pasadena
Cooper, Judge.....	F., A.B.....	Corona
Cooper, Leslie Judson.....	J., A.B.....	South Pasadena

Cooper, Renel Fenimore.....	F., A.B.....	Corona
Corbin, John Walker.....	S., A.B.....	Los Angeles
Cortright, Lucretia M.....	F., A.B.....	Galeton, Pa.
Coykendall, James Marion.....	F., A.B.....	Amora, Neb.
Crabb, Alice.....	J., A.B.....	Los Angeles
Craig, John Bryan.....	J., A.B.....	Upland
Crary, Gordon Byxbe.....	F., A.B.....	Los Angeles
Crinklaw, Charles B.....	F., A.B.....	Oxnard
Cronemiller, Flora May.....	F., A.B.....	Los Angeles
Crooker, Leon James.....	Sr., A.B.....	Clearwater
Crossman, Ralph.....	S., A.B.....	Los Angeles
Crowell, Mrs. Minnie Margaret.....	Sp., A.B.....	Los Angeles
Cummings, Gabriel Penn.....	F., B.S.....	Fresno
Cynn, Hugh H.....	Sr., A.B.....	Seoul, Korea
Davidson, Joseph George.....	J., A.B.....	Long Beach
Dayman, Evelyn Laura.....	S., A.B.....	Long Beach
Deats, Rowena Frances.....	F., A.B.....	Los Angeles
DeCamp, Lura Marie.....	F., A.B.....	East Hollywood
Decius, Louis Courtney.....	F., B.S.....	Los Angeles
Dexter, Earl Francis.....	F., A.B.....	Riverside
Dick, Sam Finley.....	J., A.B.....	Glendale
Dix, Josephine Marie.....	Sp., A.B.....	Los Angeles
Dixon, Grace May.....	F., A.B.....	Long Beach
Dowds, Roy Wilson.....	J., A.B.....	Los Angeles
Draper, Ella Martin.....	J., A.B.....	Ontario
Dresslar Martha Estella.....	F., A.B.....	Los Angeles
Eastman, Eric E.....	F., A.B.....	Hollywood
Eaton, Arthur Lincoln.....	F., A.B.....	San Diego
Eccleston, Earle Stevens.....	F., B.S.....	Los Angeles
Ellington, Frederic Merton.....	F., A.B.....	El Monte
Elliott, Harry Charles.....	S., A.B.....	Fullerton
Edwards, Lyman Elmer.....	G.....	Los Angeles

Ph.B., Drake University.

English, Stuart Gordon.....	F., B.S.....	Lindsay
Ensley, Oliver P.....	Sr., A.B.....	Ontario
Erickson, Mrs. Maud Weaver.....	J., A.B.....	Los Angeles
Erwin, Douglas G.....	F., A.B.....	Sacramento
Evans, Edgar James.....	F., A.B.....	Braddock, Pa.
Fankhauser, Ernest John.....	F., B.S.....	Durango, Colo.

Farrington, Mabel Winifred.....	S., A.B.....	El Monte
Farrow, Leigh Evelyn.....	F., A.B.....	Long Beach
Fay, Hazel Margaret.....	S., A.B.....	Long Beach
Felker, Anna Mary.....	F., A.B.....	Pasadena
Fellows, Ethel Forbes.....	Sp., A.B.....	Los Angeles
Ferguson, Catherine Louise.....	S., A.B.....	Los Angeles
Ferguson, Maude M.....	J., A.B.....	Los Angeles
Fillmore, Hugh H.....	F., A.B.....	Los Angeles
Fletcher, Mavilla Ruth.....	Sp., A.B.....	Los Angeles
Fraser, Christine Rettie.....	S., A.B.....	Norwalk
Fredenburg, Mary Pauline.....	Sp., A.B.....	Los Angeles
Freeman, Mary Emily.....	F., A.B.....	Cleveland, Ohio
Fulton, Eleanor Gordon.....	F., A.B.....	Los Angeles
Gail, Sherman.....	F., A.B.....	Covina
Gates, Austin Bryant.....	Sr., B.S.....	Alhambra
Gates, Frank Rush.....	F., A.B.....	Corona
Gay, Leslie F., Jr.....	G., A.M.....	Los Angeles

A.B., University of Southern California.

Gearhart, Iva Pearl.....	F., A.B.....	Los Angeles
Geller, Roscoe Glenn.....	S., A.B.....	Toledo, Ohio
German, Nita Bird.....	Sp.,	Los Angeles
Gholz, Walter Irvin.....	J., A.B.....	Pasadena
Gilbert, Howard Eugene.....	F., A.B.....	Compton
Gilman, Ethel Susan.....	S., A.B.....	Banning
Gilson, Lewis Edward.....	F., A.B.....	Los Angeles
Glass, Lois Belle.....	F., A.B.....	Ontario
Glenn, Claire Gustavia.....	F., A.B.....	Glendale
Good, Mary Elizabeth S.....	G., A.M.....	Pasadena

A.B., Bethany College.

Goodall, Samuel Erle.....	S., A.B.....	Chatsworth
Goodenow, Harold Wheelock.....	F., A.B.....	Los Angeles
Goodere, Harold Ingham.....	J., A.B.....	Fitchburg, Mass.
Goodsell, Joy G.....	S., B.S.....	Tropico
Gould, Jesse A.....	F., B.S.....	Los Angeles
Gower, Harrison Preston.....	S., B.S.....	Hollywood
Graettinger, Rupert Fred.....	F., A.B.....	Ontario
Grant, Agatha	F., A.B.....	Los Angeles
Grass, Joseph Fernand.....	F., A.B.....	Hollywood
Green, Florence L.....	Sp.,	West Union, Ia.

Green, Gladys.....	F., A.B.....	West Union, Iowa
Grow, Jesse Avery.....	Sr., A.B.....	Los Angeles
Guild, Ellis Darwin.....	Sr., A.B.....	San Diego
Halfpenny, Ida Belle.....	J., A.B.....	Ontario
Hall, Boyden.....	F., A.B.....	Huntington Beach
Hall, Walter Alexis.....	J., B.S.....	Huntington Beach
Hamilton, Eleanor Frances.....	S., A.B.....	Los Angeles
Hampton, Lorenzo A.....	J., A.B.....	Fullerton
Hanawalt, Frank Barrett, Jr.....	F., A.B.....	Los Angeles
Hanawalt, William Cyrus.....	G., A.M.....	Lordsburg

M.E., Juniata College.

Hansen, Julius.....	Sp., A.B.....	Los Angeles
Harriman, William Ruddy.....	Sr., A.B.....	Los Angeles
Harris, Ethel Cordelia.....	F., A.B.....	Compton
Haslett, Roy Lyon.....	F., A.B.....	Long Beach
Hatcher, Joybell.....	F., A.B.....	Los Angeles
Hatfield, Clara Cecil.....	F., A.B.....	Los Angeles
Haynes, Grace Bertice.....	F., A.B.....	Aurora, Indiana
Healy, Lulu May.....	Sr., A.B.....	Los Angeles
Henderson, Randall Thomas.....	J., A.B.....	Akron, Colo.
Herold, Berta Dyer.....	F., A.B.....	Bloomfield, Indiana
Hickson, Stephen Emmet.....	F., A.B.....	Los Angeles
Hidden, Carolyn Maybelle.....	Sr., A.B.....	Los Angeles
Higgins, Arthur Lloyd.....	Sr., A.B.....	Los Angeles
Higgins, David Jordan.....	Sp.	Pasadena.....
Hill, Arthur Louis.....	F., A.B.....	Los Angeles
Hill, Joseph Tyler.....	G.	Los Angeles

A.B., Univ. of Virginia; A.M., Univ. of So. Cal.

Hipple, Warren Braun.....	F., A.B.....	San Pedro
Hitt, Eleanor.....	J., A.B.....	Los Angeles
Hoashi, Riichiro.....	J., A.B.....	Los Angeles
Hogan, Nelson Stary.....	F., A.B.....	Los Angeles
Hogan, Romaine.....	F., A.B.....	Los Angeles
Hogoboom, William Coryell.....	F., B.S.....	Los Angeles
Hogsette, Grace Wise.....	F., A.B.....	Los Angeles
Hollan, Margaret Frances.....	F., A.B.....	Escondido
Holland, Rufus Hurn.....	F., B.S.....	Hemet
Hollingsworth, Laura Anne.....	S., A.B.....	Dubuque, Iowa
Hough, Henrietta How.....	Sp., A.B.....	Pasadena

Hughes, W. F.	Sp., A.B.	Los Angeles
Houghton, William Lake	F., A.B.	Rivera
Howard, Glenn D.	F., A.B.	Santa Monica
Hubbard, Donna Hawthorne	S., A.B.	Los Angeles
Hughes, Blakeney	F., A.B.	Pasadena
Hummel, Edward John	F., A.B.	Los Angeles
Humphrey, Helen Rosebrook	S., A.B.	Glendale
Hunter, Fanny	F., A.B.	Los Angeles
Hunter, Henry Allan	Sp., A.B.	Los Angeles
Hurst, Florence Louise	J., A.B.	Los Angeles
Huston, Luther Allison	S., A.B.	Tacoma, Wash.
Hyer, Louise DeS.	F., A.B.	Los Angeles
Ickes, Howard Raphe	F., A.B.	Los Angeles
Ickes, Sydney Frank	S., A.B.	Los Angeles
Iliff, Ruth Margaret	J., A.B.	Whittier
Inwood, Grace Agnes	F., A.B.	Redlands
Jackson, Herbert Ladd	F., B.S.	Hollywood
Jackson, Wayne Bassett	J., A.B.	Los Angeles
Jacobs, Mary Blanche	S., A.B.	South Pasadena
Janney, Thomas Addison	Sp., B.S.	Los Angeles
Jeffers, John Robinson	G., A.M.	Los Angeles

A.B., Occidental College.

Jessup, Mary Catharine	F., A.B.	Los Angeles
Jessup, Walter E.	Sr., A.B.	Los Angeles
Johnston, Inez	S., A.B.	Los Angeles
Joslin, Phoebe	Sr., A.B.	Los Angeles
Kanyu, Sakai	Sp., A.B.	Los Angeles
Kaprielian, Michael Caspar	F., B.S.	Fresno
Keeney, Florence Alice Loveless	J., A.B.	Jordan, New York
Kellar, Stewart	F., B.S.	Los Angeles
Kendrick, Jessie Pauline	F., A.B.	Los Angeles
Kiajicek, Henry Charles	F., A.B.	Alliance, Nebr.
Kirckhoffer, Richard Ainslie	F., A.B.	Los Angeles
Knopf, Carl Sumner	F., A.B.	Los Angeles
Knott, James Proctor	F., A.B.	Los Angeles
Kramar, David Glenn	F., B.S.	Silsbee
Kuhnle, Carl Herman	F., A.B.	Anaheim
Kurrle, Alfred Emil	F., B.S.	Los Angeles
Kuster, Mrs. Edward G.	G., A.M.	Los Angeles

A.B., University of Southern California.

Kuykendall, Alfred.....	J., A.B.....	Los Angeles
LaClair, Olive Rebekah.....	S., A.B.....	Los Angeles
Lamberson, Norman.....	F., A.B.....	Salem, Oregon
Laporte, William Ralph.....	F., A.B.....	Riverside
Larson, Walter Alexander.....	F., A.B.....	Los Angeles
Lawrence, Arthur Douglas.....	S., A.B.....	Los Angeles
Lawrence, Chester.....	Sp., A.B.....	Los Angeles
Lee, Guy Gerald.....	F., A.B.....	Los Angeles
Lennox, Howard M.....	S., A.B.....	Glendale
Lewis, De Witt.....	F., B.S.....	Los Angeles
Liang, Hing Luen.....	F., A.B.....	Los Angeles
Lillard, Jeremiah Beverly.....	G., A.M.....	Los Angeles

A.B., Stanford University.

Lindsey, Jasper Leonard.....	F., A.B.....	Los Angeles
Livoni, John Peter.....	J., A.B.....	Los Angeles
Locke, Ruth Wood.....	S., A.B.....	Los Angeles
Loly, Kathleen Dorothy.....	S., A.B.....	Los Angeles
Longshore, Milton Mahlon.....	F., A.B.....	Los Angeles
MacDonald, Catherine Helen.....	F., A.B.....	Los Angeles
Mackenzie, Andrew N.....	F., B.S.....	Los Angeles
Mahoney, Clarence Henry.....	F., A.B.....	Los Angeles
Malcom, John Sheldon.....	S., A.B.....	Long Beach
Malan, William Edward.....	F., A.B.....	Brawley
Mallory, Gertrude.....	Sr., A.B.....	Los Angeles
Manatt, Hazel Morgan.....	J., A.B.....	Los Angeles
Manning, Edward Earle.....	F., A.B.....	Los Angeles
Marchant, Arte Stanage.....	F., A.B.....	Los Angeles
Martin, Leonard Camburn.....	F., A.B.....	Webster Groves, Mo.
Masser, Harry Lascelles.....	F., B.S.....	Montebello
Masuda, Tetsu, Toru.....	F., A.B.....	Sanuki, Japan
Mauzy, Wayne Churchill.....	F., B.S.....	Los Angeles
Maxson, Herbert Gardner.....	F., A.B.....	Los Angeles
McAlee, Charles Torrence.....	S., B.S.....	Los Angeles
McCan, David Chambers.....	Sr., A.B.....	Los Angeles
McCarthy, Elizabeth Carroll.....	Sp., A.B.....	Los Angeles
McClellan, Leslie Newman.....	J., B.S.....	Riverside
McComas, Ethel.....	Sp.	Pomona
McCorkle, Annie Rowland.....	S., A.B.....	Los Angeles
McCoy, Ethel Lucinda.....	F., A.B.....	Los Angeles

McCray, A. Calvin.....	S., A.B.....	Los Angeles
McCune, Irene.....	F., A.B.....	Perry, Oklahoma
McEndree, Fay N.....	J., A.B.....	Los Angeles
McEwen, William Wilson.....	S., A.B.....	Riverside
McGorray, Jeannette	Sp., A.B.....	Los Angeles
McLaughlin, Robert D.....	F., A.B.....	Los Angeles
McNeil, Diana Bralah.....	G., A.M.....	Oluka, Liberia, Africa
<i>A.B., University of Southern California.</i>		
McQuigg, Harry Martin.....	F., A.B.....	Los Angeles
McSweeny, Margaret Mary.....	F., A.B.....	El Monte
McWhirter, Louis B.....	S., A.B.....	Los Angeles
Merriell, Edith Rebecca.....	F., A.B.....	Los Angeles
Metcalf, Edward Newcomb.....	S., A.B.....	Los Angeles
Meyer, Emma Sophia.....	F., A.B.....	San Bernardino
Michaelis, Esther.....	F., A.B.....	Norwalk
Mitchell, Harry	S., A.B.....	Ontario
Moberly, W. Ray.....	Sp., A.B.....	Spearfish, S. Dakota
Monteleone, Joseph.....	S., A.B.....	Los Angeles
Moody, Clarence Lemuel.....	S., A.B.....	Los Angeles
Moody, Egbert Earl.....	S., A.B.....	Ontario
Moore, Camille Anna.....	F., A.B.....	Los Angeles
Moore, Clarke Alphonso.....	J., A.B.....	Whittier
Moore, Harry James	F., B.S.....	Los Angeles
Moses, Marian Tytherleigh.....	F., A.B.....	Los Angeles
Mowers, Beatrice Mary.....	F., A.B.....	Los Angeles
Murray, Guy Forrest.....	S., A.B.....	Chino
Murray, Hamilton.....	S., A.B.....	San Gabriel
Murray, Virginia.....	F., A.B.....	San Gabriel
Myers, Edith Marie Marshall.....	S., A.B.....	Los Angeles
Nakamura, Masawo K.....	Sp., A.B.....	Los Angeles
Nagai, Tasaburo.....	Sp., A.B.....	Los Angeles
Nave, Junia.....	F., A.B.....	Los Angeles
Nelson, Mary Elizabeth.....	F., A.B.....	Arroyo Grande
Nemechek, Rudolph Joseph.....	S., B.S.....	Los Angeles
Newkirk, William Bentley.....	Sr., A.B.....	Los Angeles
Nichols, Loyd Patterson.....	J., A.B.....	Ogalalla, Nebr.
Nichols, Viola Beatrice.....	F., A.B.....	Pasadena
Nigg, Rose Annetta.....	S., A.B.....	Covina
Noble, Carrie M.....	Sr., A.B.....	Garvanza

Oakley, Elizabeth M.....	Sp., A.B.....	Los Angeles
Olmsted, Harry F.....	F., B.S.....	Los Angeles
Oswald, Christian Lester.....	Sr., A.B.....	Los Angeles
Oxnam, Garfield Bromley.....	F., A.B.....	Los Angeles
Palmer, Bertha Louise.....	J., A.B.....	Compton
Palmer, William Judson.....	S., A.B.....	Pasadena
Parker, Pauline.....	Sp., A.B.....	Los Angeles
Parker, William R.....	F., A.B.....	Los Angeles
Parks, Elizabeth Florence.....	S., A.B.....	Los Angeles
Parmelee, Florence.....	J., A.B.....	South Pasadena
Parmenter, Charles Leroy.....	Sr., A.B.....	Los Angeles
Pasko, Ruth Matelma.....	S., A.B.....	Los Angeles
Patterson, Clova Floyd.....	J., A.B.....	Parlier
Paulin, Harold David.....	J., A.B.....	Brentwood Park
Paxton, Percival Curtis.....	S., A.B.....	Riverside
Peterman, Russell Wallace.....	F., A.B.....	Los Angeles
Phillips, Clifford Henry.....	F., A.B.....	Pasadena
Phillips, Harry Francis.....	S., A.B.....	San Pedro
Playter, Philip.....	F., B.S.....	Los Angeles
Powell, Mary Irene.....	S., A.B.....	San Fernando
Prather, Wilbur William.....	S., B.S.....	Los Angeles
Pratt, Evelyn R. A.....	Fr., A.B.....	Santa Monica
Pressman, Lillian Elizabeth.....	Sp., A.B.....	Los Angeles
Preston, Alice Lucile.....	Fr., A.B.....	Pasadena
Prince, Claude Raymond.....	S., A.B.....	Los Angeles
Prior, Jack Wolsey.....	F., B.S.....	Los Angeles
Ransom, Walter.....	Sp., A.B.....	Redondo Beach
Reberger, William.....	Sr., A.B.....	Watts
Reed, Chauncey Lester.....	F., B.S.....	Los Angeles
Reed, Burt W.....	Sp., A.B.....	Los Angeles
Reed, Leslie James.....	G., A.M.....	Hermon

A.B., University of Southern California.

Reiche, Charles F.....	F., A.B.....	Los Angeles
Reinhard, C. J.....	Sp., A.B.....	Los Angeles
Reinhard, James Clarence.....	Sp., A.B.....	Los Angeles
Reser, Raymond Lawrence.....	F., A.B.....	Alhambra
Reynolds, Myra Harriet.....	F., A.B.....	Highland Park
Reynolds, Roy G.....	F., A.B.....	Perris
Rhodes, Emily De Noyelles.....	Sp., A.B.....	Santa Monica

Rice, Loren Benton.....	F., B.S.....	Jackson, Ohio
Rice, Nettie Belle.....	S., A.B.....	Santa Monica
Richardson, Grant.....	S., A.B.....	Santa Paula
Richardson, Frank Robert.....	J., A.B.....	Santa Paula
Riche, Mansel J.....	Sr., A.B.....	Los Angeles
Riley, Portia Alice.....	Sp., A.B.....	Monrovia
Rindge, Frederick Hastings.....	F., A.B.....	Los Angeles
Rivers, Lillian Frances.....	S., A.B.....	Los Angeles
Roberts, Charles Wesley.....	Sr., A.B.....	Los Angeles
Roberts, William Giles.....	S., B.S.....	Los Angeles
Robertson, Blanche Louise.....	Sr., A.B.....	Ontario
Robinson, Flora Humason.....	Sr., A.B.....	Riverside
Robinson, Francis Willard.....	S., A.B.....	Long Beach
Robinson, Irene.....	F., A.B.....	Trabuco
Robson, John Stanley.....	F., A.B.....	Los Angeles
Rogers, John, Jr.....	S., B.S.....	Los Angeles
Romig, Edith May.....	S., A.B.....	San Dimas
Roome, Beatrice May.....	J., A.B.....	Los Angeles
Roome, Harry Verrinder.....	S., B.S.....	Los Angeles
Ruschaupt, Theodore August.....	S., A.B.....	Fresno
Rush, Bertha.....	F., A.B.....	Los Angeles
Ryan, Bernice Lorane.....	S., A.B.....	Los Angeles
Ryan, Sylvia Nigel.....	J., A.B.....	Los Angeles
Salzman, Maurice.....	Sp., A.B.....	Los Angeles
Saverien, Arnold Egerd.....	Sp., A.B.....	Los Angeles
Schaffer, Gertrude Berford.....	F., A.B.....	Los Angeles
Schmutzler, Fred L.....	F., A.B.....	Los Angeles
Schoeller, Jacob D.....	S., A.B.....	Los Angeles
Schwab, Erma B.....	S., A.B.....	Cleveland, Ohio
Schwab, Ida A.....	G., A.M.....	Cleveland, Ohio

A.B., Western Reserve University.

Scott, Alice Edith.....	F., A.B.....	Los Angeles
Scott, Benjamine David.....	Sr., A.B.....	Los Angeles
Scott, Charles H.....	G., A.M.....	Pasadena

A.B., University of Southern California.

Scott, Homer Davis.....	S., A.B.....	Los Angeles
Scribner, Emma May.....	Sp., A.B.....	Long Beach
Seal, Luetta Clarissa.....	F., A.B.....	Long Beach
Shepard, Anne Loomis.....	S., A.B.....	Los Angeles

Shepard, Grace Ethel.....	F., A.B.....	Los Angeles
Shonerd, Roscoe Edwin.....	F., B.S.....	Springdale, Nevada
Short, Frank H., Jr.....	F., B.S.....	Fresno
Shumway, Howard Paine.....	F., A.B.....	Wakefield, Nebr.
Silvins, Delwin Harold.....	S., A.B.....	Los Angeles
Sims, George Washington.....	F., A.B.....	Los Angeles
Sims, Violet Ellen.....	F., A. B.....	Aurora, Nebr.
Sinclair, Roscoe.....	S., B.S.....	Edgewater, Colo.
Skinner, Carl B.....	F., A.B.....	Los Angeles
Skinner, John K.....	S., A.B.....	Los Angeles
Sloan, Winifred N.....	F., A.B.....	San Bernardino
Smith, Cordelia Madison.....	F., A.B.....	Venice
Smith, Eva Mae.....	F., A.B.....	Los Angeles
Smith, Edwin Thomas.....	F., A.B.....	Chula Vista
Smith, Gladys.....	F., A.B.....	Los Angeles
Smith, Hilda.....	F., A.B.....	Los Angeles
Smith, Lillian.....	F., A.B.....	Los Angeles
Smith, Marion Lenore.....	F., A.B.....	Los Angeles
Smith, Ruth Cordry.....	F., A.B.....	Los Angeles
Snyder, Stella May.....	J., A.B.....	South Pasadena
Sowden, Grace Evelyn.....	S., A.B.....	Los Angeles
Sparey, Albra L.....	S., A.B.....	Los Angeles
Speicher, Mary Maude.....	J., A.B.....	Los Angeles
Spinks, Leon.....	F., A.B.....	Los Angeles
Squires, Alma Markella.....	Sp., A.B.....	Ontario
Standifer, Tom.....	F., A.B.....	Houston, Texas
Standlee, Lela May.....	F., A.B.....	Downey
Stark, Russell Earl.....	F., A.B.....	Long Beach
Steffy, Eva Pearl.....	J., A.B.....	Santa Monica
Stephenson, Clara Crockett.....	F., A.B.....	Los Angeles
Stephenson, Effie Brown.....	F., A.B.....	Los Angeles
Sterns, Hubert Gilmore.....	F., B.S.....	Los Angeles
Stieglitz, Marsteller W. B.....	F., A.B.....	San Pedro
Stine, Richard W.....	F., B.S.....	Los Angeles
Stone, Glenn Everet.....	Sp., A.B.....	Long Beach
Stranberg, Henry Herman.....	J., A.B.....	Whittier
Suman, John Robert.....	S., B.S.....	Hollywood
Swain, Alma.....	J., A.B.....	Whittier
Swain, Frank Graham.....	F., A.B.....	Whittier

Taft, A. Z.....	J., A.B.....	Hollywood
Taft, B. Y.....	F., B.S.....	Hollywood
Taft, Mildred Blanche.....	F., A.B.....	Hollywood
Tagg, Harriet Grace.....	S., A.B.....	San Bernardino
Tamotsu, Kohno.....	Sp., A.B.....	Los Angeles
Taylor, Blanche Alice.....	S., A.B.....	Compton
Taylor, Howard Corbin.....	J., A.B.....	Lynn, Penn.
Taylor, Robert J.....	G., A.M.....	Inglewood

A.B., Hamlin University.

Temple, Julian Phelps.....	F., B.S.....	Hollywood
Teskey, Myrtle E.....	J., A.B.....	Los Angeles
Thomas, Ira G.....	F., B.S.....	South Pasadena
Thompson, Alice B.....	G., A.M.....	Los Angeles

Ph.B., Alma College.

Thompson, Edd Griffin.....	S., A.B.....	Los Angeles
Thompson, William Ben.....	S., A.B.....	Los Angeles
Throop, Lotta Mae.....	J., A.B.....	Brookings, S. Dakota
Throop, Ross M.....	F., A.B.....	Brookings, S. Dakota
Throop, Waldo G.....	F., A.B.....	Los Angeles
Thurston, I. P.....	Sp., A.B.....	Los Angeles
Tilson, Archie Fuller.....	F., B.S.....	Corona
Tinker, Cleopatra.....	Sp., A.B.....	Douglas, Arizona
Tischhauser, Sylvia Dora.....	F., A.B.....	Los Angeles
Titus, Mabel Eleanora.....	F., A.B.....	Los Angeles
Tottenham, Kathleen Cliffe.....	F., A.B.....	Los Angeles
Trask, Ida Mary.....	F., A.B.....	Los Angeles
Traynor, Wilfred.....	F., A.B.....	Los Angeles
Trotter, Harry Ebert.....	F., A.B.....	Fillmore
Trussell, Mary.....	F., A.B.....	Escondido
Trythall, Anna Lavina.....	S., A.B.....	Los Angeles
Tupman, Alice Kate.....	S., A.B.....	Los Angeles
Turner, Frank Le Grande.....	Sp., A.B.....	Los Angeles
Twining, Mrs. Jennie May.....		Mendola, Ill.

A.B., A.M., University of Southern California.

Uber, Edna Radcliffe.....	J., A.B.....	Los Angeles
Underwood, Ethel May.....	F., A.B.....	Whittier
Valentine, Jean Mae.....	F., A.B.....	Los Angeles
Vaughan, Elizabeth Beatrice.....	F., A.B.....	Santa Monica
Vernon, Charles Clark, Jr.....	F., B.S.....	Los Angeles

Vertrees, May.....	S., A.B.....	San Jacinto
Vinsel, Edna Jessie.....	F., A.B.....	Los Angeles
Volk, Kenneth Quinton.....	F., B.S.....	Los Angeles
Wade, Henry N.....	F., B.S.....	Hollywood
Walberg, John Daniel.....	F., A.B.....	Los Angeles
Wallace, Kenneth.....	J., A.B.....	Los Angeles
Walters, John Earl.....	F., A.B.....	South Pasadena
Walton, Munroe L.....	Sp., B.S.....	Los Angeles
Ward, Marion.....	F., A.B.....	Los Angeles
Warner, Willis Huxley.....	J., B.S.....	Huntington Beach
Watson, Fern Leannah.....	F., A.B.....	Reedley
Weaver, Charles Raymond.....	F., A.B.....	Highland Park
Weaver, Royal Arthur.....	G., A.M.....	Highland Park

A.B., Univ. of So. Cal.; B.D., Drew Theol. Sem.

Webster, Mary Halleck.....	F., A.B.....	Los Angeles
Weir, Edith M.....	S., A.B.....	Los Angeles
Weis, Jasper.....	F., B.S.....	Los Angeles
Weitbrecht, George, Jr.....	F., A.B.....	Orange
Wellborn, Mildred.....	S. A.B.....	Long Beach
Wells, Marion Sybil.....	Sp., A.B.....	Los Angeles
Wenk, Elizabeth.....	S., A.B.....	Los Angeles
Werner, Gustav Adolph.....	S., A.B.....	Los Angeles
Weseloh, Emilie Marguerite.....	F., A.B.....	Los Angeles
Wharf, Bess W.....	J., A.B.....	Olnèy, Ill.
Wheat, George G.....	S., B.S.....	Los Angeles
Wheelan, Robert B.....	Sp., A.B.....	Los Angeles
Wheeler, Mildred Lucile.....	F., A.B.....	Pasadena
White, W. E.....	Sp., A.B.....	Los Angeles
Whitman, George Colin.....	F., B.S.....	Los Angeles
Whittemore, Elsie Louise.....	J., A.B.....	Alhambra
Wiley, Lena Ellen.....	J., A.B.....	Downey
Wilkinson, Roy Albert.....	S., A.B.....	Los Angeles
Willett Grace Alice.....	Sr., A.B.....	Los Angeles
Willett, Hugh C.....	G., A.M.....	Los Angeles

A.B., University of Southern California.

Willis, Margaret Evangeline.....	F., A.B.....	San Francisco
Wills, Meredith Elsensohn.....	F., A.B.....	Brawley
Winans, Ida Isadora.....	J., A.B.....	Los Angeles
Wirsching, Carl B.....	Sr., B.S.....	Los Angeles

Witherell, Edith Hope.....	F., A.B.....	Los Angeles
Woertendyke, Howard Porter.....	F., A.B.....	Los Angeles
Wood, Glen Frederick.....	F., B.S.....	San Luis Obispo
Woods, Richard Phillips.....	S., A.B.....	Los Angeles
Woodsum, Anna Vere.....	F., A.B.....	Los Angeles
Wrisley, Pearl Hayden.....	S., A.B.....	Los Angeles
Yerge, Clyde S.....	S., B.S.....	Los Angeles
Yerington, Alice.....	F., A.B.....	Los Angeles
Zander, Lucille Elaine.....	J., A.B.....	Los Angeles
Ziegler, Ethel Grace.....	S., A.B.....	Long Beach
Zinn, Cleo J.....	F., B.S.....	Los Angeles

SUMMER SESSION, 1909.

Adams, Winola	Cynn, Hugh H.
Avakian, Arsen Harootune	Darling, Richard James
Baker, Dwight Condo	Davidson, Joseph George
Barden, Harold Edward	Douglass, Mrs. Ida W.
Benkert, Robert	Duncan, Dorothy
Biggin, Helen Mable	Dunn, Frank
Bigelow, Emma Lorinne	Exline, Irma M.
Blackburn, Porter C.	Faries, David Reid
Boggs, Ina V.	Fletcher, Katheryn
Boller, Gordon	Gaynor, Alta Elizabeth
Bonoff, Karl M.	George, Edna
Bostwick, Florence Fern	Gibson, Harry
Bowers, Alice Teresa	Gilson, Lewis Edward
Bowers, Chester Herbert	Gould, Jesse A.
Bowser, Charles A.	Grow, Jesse Avery
Bridges, Sadie Ethel	Guild, Ellis Darwin
Burleson, Frank Edward	Hall, Winfield S.
Chadwick, Nina May	Harriman, William Ruddy
Chamley, Otto David	Heizman, Edwin
Clark, Donald Lemen	Hill, Agnes Leona
Claypool, Jack Blandy	Hirsh, Harry
Coyne, Robert J.	Hollan, Margaret Frances
Creyhton, Neal	Hooker, Harry Edwin
Crooker, Leon James	Howard, Frances

Huffman, Hazel Lundstrom
Hunter, Henry Allan
Johnston, John M.
Keeney, Florence Alice L.
Kleinman, Charles
Knoch, Alice Cornwall
Knopf, Carl Sumner
Kuykendall, Alfred
Liang, Hing Luen
Locke, Charles Edward, Jr.
Lovett, Mamie Lewis
Madden, George Hompton
Magnuson, Forsten Alexis
Malan, Martha Angeline
Malan, William Edward
McClurkin, Arthur
McGorray, Jeannette
Mead, Hazel Helen
Merriman, Harold Almerin
Mitchell, Harry
Mock, Nannie E.
Morrison, Lloyd Frares
Myrick, Lydia
Namkoong, David Yum
Nelgner, Ida

Nye, Alice Witherell
Oakley, Elizabeth Mary
Oxman, Garfield Bromley
Pfister, Corinne
Polkinghorn, William
Reed, Wallace Allison
Rice, Nettie Belle
Roberts, Charles Wesley
Robertson, Blanche Louise
Rosenkranz, Elias Victor
Samuels, Minnie A.
Scholl, Agnes Julia
Scovel, Edith Savina
Shepard, Anne Loomis
Stafford, Adelaide
Thompson, Ruth
Tolbert, H. V.
Tucker, Myrtle M.
Tuttle, Rollin Simpson
Van Zandt, Elwyn B.
Watkins, William Henry
Watson, Dolores Marie
Weaver, Charles Raymond
Wirsching, Carl B.
Wyatt, Julia Blanche

PREPARATORY SCHOOL

FIRST YEAR.

Allin, Helena
Arnold, Pearl
Barlow, Gladys Anna
Beckett, Francis Haynes
Beeks, Chester Warren
Bigelow, Irene
Bilson, Ida Maie
Boggs, Aura Clare
Brode, Beulah Jeannette
Brown, Stuart Douglas

Culbert, Daphne
Cannon, Laura Altha
Carson, Walter Lloyd
Chamlee, Hattie Pearl
Chang, Wilbur K.
Chapman, Llewellyn Sidney
Child, Beulah
Clement, Hallowell Fernando
Clendenon, Lida Kathleen
Collins, Herbert

Dyar, Dorothy Margaret	Leatherwood, Karl Albert
Earl, Harley J.	Lloyd, Charles E.
Eisenmayer, Charles P.	Long, Tirrell Lyman
Flory, Arthur	Lovelace, Kattie Rosamond
Franklin, Mary O.	Miller, Paul Burt
Frederick, Grace Esther	Mosher, Walter Edwin
Frum, Archie Guy	Neuhart, Florence
Granger, Florence	Obear, William Frank
Guthridge, Russell M.	O'Neil, Emma Eileen
Hale, Marguerite Florence	Peloubet, Edith Carlyle
Hardenburgh, Charles George	Philbrick, John Van Ness
Hastings, Leona	Polkinghorn, Will Arthur
Helm, Lynn, Jr.	Powell, Susie Cornelia
Hiscock, Eula Ewin	Ramsay, William Leslie
Hogan, Van Der Veer	Roe, Ethel
Holland, Walter	Shaffer, Grace Leone
Holliday, Nathan Ira	Shaffer, Mabel May
Holmes, George Glenn	Sherrod, Esther
Howe, Marion Sprague	Smith, Frank Macpherson
Hughes, Norman Conrad	Smith, Harold James
Hughes, Reed William	Smith, Lois Kedron
Inwood, Ruth	Stanberg, Mildred Dona
Isdell, James Edward	Stone, Mardiros Kevork
Johnson, Carl Edwin	Thayer, Harry
Kam, Jessie Angeline	Thomson, Donald Mayborn
Kennedy, Mildred Frances	Vogel, Bert F.
Killion, Earle Daniel	Willcox, Lutie Louise
La Porte, Otho Paul Daniel	Williams, Vernon Clark
La Porte, Rollo Collor	Woertendyke, Harold Westley
Lawrence, Mabel Jarvis	Yokayama, T.

SECOND YEAR.

Acklin, Ethel Helen	Caldwell, William Jackson
Adams, Winola	Chamlee, Archie
Black, James Preston	Chan, Edward Spencer
Boggs, Ina Viola	Clark, Loren Tompkins
Brodbeck, Mary	Coller Clara
Brown, Nina Monica	Collins, Lucille Mildred

Crabill, Hazel Dell
Creighton, Thomas Neal
Daniel, Roy Clifford
Day, Clyde Amos
Day, Zylpha Lauretta
Flory, Earl Lester
Fowler, Hazel Marjorie
Frazier, Roland Hilliard
Gaynor, Alta Elizabeth
Gibson, Harry
Gilfillan, J. Gould
Haupt, William Frederick
Hine, Helen B.
Huston, Robert C.
Joslin, Marion
Lee, Andrew B.
Locke, Charles Edward, Jr.
Lorentzen, Julian Anna
Lovett, Mame Lewis
Lowe, Henry
Marshall, Ruby
Mead, Hazel Helen
Miller, Edward Edwards
Moles, Hazel Netitia
Morrill, Lewis Lee
Moses, Leigh
O'Neil, Mary Phila

Reavis, John V. Price
Reed, Le Roy
Reed, Ruel Lafayette
Reiche, Clarence W.
Reily, Ralph Gamble
Ryan, Samuel Benford
Sakaizawa, Fsao
Scovel, Edith Layinia
Scoville, Ethel Mae
Shafer, Leroy Vincent
Shimamura, T.
Snowden, Mildred Ennuce
Sowden, John Henry
Spencer, Chester B. U.
Sterry, Philip Hood
Stivers, Virginia Irene
Strong, Mildred
Tedlock, Culley Claud
Thompson, Samuel Harry
Timmons, Robert
Ward, Cecil Kennith
Whitmeyer, John Lawrence
Wilson, Cleio Ruth
Wintrode, Henry I
Wright, Todd Foster
Yashima, Chinzo
Yaw, Frances Myrtle

THIRD YEAR.

Ayers, Loren William
Beckett, Wilbur Archer
Boness, Louise Elizabeth
Bovard, Gladys Freeman
Brown, G. Frank
Burch, Marguerite
Chamberlin, Joie Eva
Chan, Katherine
Childs, Ruth Sherman

Chrysler, Everett Nelson
Chung, Margaret Jessie
Coomber, Doris Patricia
Corneliussen, Frederick A. T.
Cory, Helen Ruth
Crandall, Lane
Dalin, Carl Arthur
Darling, Richard James, Jr.
Dyer, Adrienne Ernestine

Earl, Carl Everette
Flick, Gertrude Lillian
Foster, Emory Alfred
Gibson, Bernice Edna
Girdlestone, May
Griffin, Herschel Raymond
Johnson, Wilbur Wallace
Knoles, Stella Ellen
Lannon, Olive Gingell
Lee, Pang Kwan
Locke, James Edward
Locke, Lydia Margaret
MacDonald, Gladys Rachel
Mahoney, Mildred Agnes
Mayer, George Kenney
Meserve, Dorothy Annette
Murdock, George Vencent
Namkoong, David Y.

Obear, Katharine
Olson, Clarence Raymond
Parker, John Tyler
Parmelee, Lester Vernon
Patton, Stanley Flickinger
Peck, Claude Elwood
Salisbury, Howard G.
Shartle, Hazel Artha
Shaw, Myra Mary
Stabler, Dwight Wilbur
Thorne, Elsie May
Vermilion, David
Wallace, Donald Joseph
Watson, Homer William
Willcox, Vivian Alma
Williams, Eugene D.
Woods, Steele Slaughter
Zimmerman, Louise

FOURTH YEAR.

Aber, Ruth Irene
Anderson, Frances Williard
Anderson, Mary Ruth
Ayers, Lucile Jane
Biggin, Helen Mable
Bowers, Alice Teresa
Brown, Laura Elizabeth
Brown, William F.
Buffington, Lillian Gertrude
Buffington, Olive Lay
Carr, Brenton Stanley
Caruthers, Eugene Gurley, Jr.
Chambers, Jennie L.
Colburn, John R.
Davis, Robert Stephens
Eaton, Ralph J.
Fisher, Ruth Lulu
Forker, V. Eugene

Getty, Jean Paul
Hall, C. Walter
Hammond, Emma Evelyn
Harden, Fannie E.
Henderson, Carl Rankin
Holloway, Joseph David
Hunter, Graham Burgess
Jolley, Frances
Kast, Emma Johanna
Kawamoto, Tesuo
Knoch, Alice Cornwall
Lewis, Joseph Reynolds, Jr.
Long, Emmet S.
Lovell, Alta Josephine
Lusk, Edgar W.
Malan, Martha Angeline
Mann, Ernest Lee
McDowell, Alfred

Mitchel, Hoyt Hickman
 Newberry, Claire Squires
 Norton, Ward Butler
 Parks, Clara Aline
 Powell, Walter
 Prosser, J. Don
 Rivers, Ernest Bedford

Sharkey, Dorothy Adele
 Sisk, Catherine Davida
 Sowden, Nellie Margaret
 Van Aken, Gertrude Elizabeth
 Ward, Robert Winnie
 Wotton Leona Ella

COLLEGE of PHYSICIANS & SURGEONS

FRESHMEN.

Bames, Otto
 Bell, Jr., Frank
 Blake, Wendell Phillips
 Blass, Mrs. Rosa Barney
 Bowers, Chester H. (A.B.)
 Carter, Ray Alden (A.B.)
 Chadwick, Benjamin Cole
 Citron, I. Jesse
 Curl, Robert Latta
 Dieterle, Karl Lional
 Dunsmoor, Robert M.
 Eisen, Edward George
 Felch, Miner Frank
 Forsyth, Laurin Alma
 Ginsburg, S. S.

Jones, Robert Melvin
 Kelley, Gilbert A.
 Kittle, Walter Francis
 Larzalere, Ray Verplank
 Lucey, David D.
 McCrea, Miss Agnes Benford
 Parrett, Owen Samuel
 Reeves, James Walter
 Rogers, Earl Leroy
 Sands, Raymond Arthur
 Schwartz, David D.
 Shattuck, Alvin
 Shaw, Mrs. Rovena Josephine
 Smith, Harold Wilbur
 Webb, Arthur Curtin

SOPHOMORES.

Ammann, Francis Xavier
 Avery, Lewis Gorton
 Boyer, John Ira
 Charleston, Vernon Claude
 Davey, Edgar Charles
 Flinn, Homer John
 Foye, Frank Alonzo
 Hall, Will E.
 Jeffers, John Robinson (A.B.)
 Nelson, Fred Howell

Patric, Miss Gladys Emilia
 Ronan, Richard Robert
 Smart, Elliott Plummer
 Stokes, William Ellis
 Stookey, Byron Polk (M.A.)
 Thurber, Delos Packard
 Thurber, William Grant
 Wilson, Loren Everett
 Yager, William Laurence

JUNIORS.

Abramson, Max Jacobs	Domann, Arthur Henry
Boller, Phillips	Sumners, Frank Burroughs
Cocke, John Vinton	Traugher, William Francis
Moore, James Bert	

SENIORS.

Allen, Mrs. Addie Brown	Parrish, Frederick Watson
Carlson, Arthur Charles	Riche, Edwin Jules (M.D.)
Clinton, Edwin M.	Rosenkranz, Herbert A. (A.B.)
Gage, Clifton E.	Stadfield, Clayton Grube
Hoare, Harry James	Thornton, James
Koebig, Walter Charles (A.B.)	Werner, Ewald Alfred S.
Mordoff, Charles Espy	

GRADUATES.

Hampshire, George H. (M.D.)	Tillotson, C. A. (M.D.)
Kester, Effie K. (M.D.)	White, Daniel W. (M.D.)
Matthis, C. R. (M.D.)	

COLLEGE *of* LAW

FRESHMEN.

Anderson, Guy Rufus	Blythe, Minor LaVerne
Anderson, Robert Lee	Bowring, Lynden Flash
Angier, Iva Josephine	Bowron, Fletcher
Arnold, Howard Chester	Bowser, Vincent Eril
Baird, Charles Roland	Brady, Ernest Lasota
Baker, Ivan	Brown, Edgar
Baker, Charles Frederick	Browning, J. M.
Beatty, Laura	Burdick, Raymond
Beck, James Emery	Burke, Pascal
Benedict, Stanley	Benes, Dora
Benjamin, Irvin Bernard	Caruthers, Eugene
Benkert, Robert	Cate, Clyde Elton

- | | |
|-------------------------------|-------------------------------|
| Chandler, George Gregg | Hill, John James |
| Childers, Charles Leroy | Hitchcock, Earl Edmond |
| Church, Max A. | Hole, Morris Clifford |
| Cohn, Thomas Martin | Holton, Charles Rufus |
| Converse, Lawrence Floyd | Hood, Randall John |
| Craig, Clarence Elliot | Houghton, William Lake |
| Cutting, Thomas Pember | Hunt, Edwin Arthur |
| Dartt, John Lieb | Ickes, Sidney |
| Davin, Edward Lawrence | Ingalls, Everett Alden |
| Decker, Herbert Adolph | Johnson, Benjamin Herbert |
| Decius, Courtney | Keck, George Ohleyer |
| Dennis, Alfred Earl | Keogh, John Francis |
| Dix, Irving F. | Kendall, George Warren |
| Donnelly, Charles Edward, Jr. | Lacey, J. L. |
| Doyle, Clyde Gilman | Lacey, Jasper Newton |
| Ensley, Oliver P. | Lawton, Homes Alfred |
| Ewald, Philip Frederick | Leake, Ellison Orin |
| Fanning, John Roy | Leonard, Francois Xavier |
| Fountain Jesse Cooley | Leovy, James Gillmore |
| Foss, Floyd Samuel Parker | Lisenby, Carl Augustus |
| Frye, Anthony Wintrode | Livingston, Benjamin |
| Furlong, Mary Franes | Maddock, Robert E. |
| Gallegos, Rafael Maria | Martin, Louie Frear |
| Gates, Walter Solomon | Mellen, John McDonald |
| Geoffrion, Victor Oscar | Michelsen, Twain |
| Gibbs, Elliot | Miles, John Cullen |
| Goodenow, Harold | Miller, James Launtz |
| Goodheart, Maurice James | Millikan, Charles English |
| Gilholm, Robert Gordon, Jr. | Mishler, Cassius |
| Graves, Hugh Powell | Moore, Arthur Donaldson |
| Graves, Jackson Alpheus | Mooslin, Constantine Mitchell |
| Gregg, Walter | McAlister, James William, Jr. |
| Griffith, Andrew Wylie | McCann, Charles Bernard |
| Gyger, Jesse Alexander | McCarthy, John Daniel |
| Ham, Kenneth MacKenzie, Jr. | McDonald, Alfred Francis |
| Hanley, Robert Lawrence | McDonnell, Thomas Mathew |
| Hansen, Julius | McEuen, William Wilson |
| Harrell, Maxwell | McGonigle, John Leo |
| Hurd, William | Netz, Joseph |

Noon, Ernest Eugene
 Orme, William Wall
 Ottman, Clifford Walter
 Padan, Charles Franklin
 Park, Frank
 Parsons, Cary Ward
 Parsons, Harmon Owen
 Patrosso, Julius Victor
 Pearse, Alfred John
 Pebbles, Leo Earl
 Peterson, Fred Eskild
 Perkins, George William
 Phelps, Charles Richard
 Powers, Jay Edward
 Price, Ernest Edward
 Pulham, Lloyd E.
 Radawitz, Henry Louis
 Randall, Arthur
 Raymond, Emil
 Rhein, Wade
 Rose, Louella
 Rosenfeld, Abe
 Rouse, Albert Frank
 Rudolph, William
 Russell, Raymond Robert
 Sale, Henry Theodore, Jr.
 Sampsell, Paul Warren
 Schwartz, Hyman
 Sellers, Benjamin Franklin
 Small, Lucian Kimball
 Smith, Kenneth
 Solomon, Ire Espy
 Spalding, Thomas Richard

Spencer, Charles Edward
 Stepper, Arthur Garfield
 Stillwell, Fred Charles
 Stuart, David Daniel
 Stufflebeem, Jolly Wesley
 Stone, Glenn Everett
 Sullivan, John Joseph
 Sumner, William Alvin
 Swaffield, Philip Milton
 Sword, James Owen
 Taggart, James Deacon
 Tehen, Jack Theodore
 Thomas, William LeRoy
 Thompson, Mark
 Thompson, Thomas W.
 Tribit, Charles Henry, Jr.
 Trude, Fred James
 Tuttle, George Wilson
 Vaughan, Vincent Bibb
 Vaughn, William T.
 Visel, Stanley Augustus
 Wackerbarth, Henry Owen
 Walker, Hugh Kelso, Jr.
 Welsh, John Henry
 White, Arthur Jones
 Whitehead, Lewis Emery
 Whomes, Frederic Leon
 Widney, Erwin Wilson
 Williams, Eugene Dungan
 Wilson, Chris, Jr.
 Wilson, Robert Gordon
 Wright, Alfred

JUNIORS.

Allen, Clifton
 Allen, John
 Backus, Knowles Earl
 Blumberg, David

Burch, George
 Cass, Philip
 Chamberlin, Harry Audry
 Coleman, William

Converse, Norris May	Murray, Hamilton
Culver, Richard Joseph	Musgrove, John Joseph
Curtin, George Rogers	Martin, Melrowe
Decius, John Harmon	McCullough, Vernon Clare
Doherty, Frank Patrick	McCreary, Charles
Donnell, Horace	McDonald, Donald
Downs, Wilber Frank	McGregor, Charles
Duggan, Frank Alphonse	McMahon, John Joseph
Durbin, William Reese	Naugle, Harry David
Edmonds, Douglas Lyman	Nolan, Edward James
Ellis, Thomas Earl	Norton, Richard Henry
Farman, Charles Hugo	Nourse, Paul
Foster, Abram	Parker, Elizabeth
Fujii, Sei	Patten, Sarah Elizabeth
Gardner, Chauncey Edgar	Phelps, John
Gault, Donald	Potter, Charles Guy
Green, Arthur William	Risdon, Frederick Ray
Greer, Gilbert Edward	Rivera, Robert Parfirio
Haggart, Alexander McKenzie	Roberts, David Berwyn
Hardy, Rex Giffen	Robinson, Oliver Raynor W.
Himrod, William Brown	Rosecrans, Leon Marmaduke
Hyter, Sidney Samuel	Russell, Hartwell Cook
Jarrot, Robert Adams	Salzman, Maurice
Jarrot, James Smith	Shafer, Jesse Reno
Julian, William Bailey	Showers, Victor Paul
Kelley, William	Snyder, William Cloyd
Keys, Mark Butler	Stevens, Walter Hayes
Kittredge, Ben Webster	Thompson, Roland
Land, Jesse Mearl	Tinklepaugh, Roy Delerne
Lawlor, Reed Morris	Tolhurst, Louis Hodgman
Leitch, Alexander Young	Travis, W.
Lobdell, J. Karl	Tritt, William Winters
Martin, Melrowe	Wheelock, Ray Hoover
Maurice, Guy Erhardt	White, Thomas Patrick
Miles, William, Jr.	Whitworth, Walter
Mitchell, Robert	Wisdom, Earl Leslie
Montgomery, Plumber	Woolwine, Clare Wharton
Multheuf, Christopher Joseph	Yager, Thomas Charles

SENIORS.

Archer, Allen Thurman	Lloyd, Norman
Arnold, Medford Roop	Lyman, Edward Dean
Atkins, Charles Lewis	McClenon, Waiter Holbrook
Bagley, Charles Leland	MacGowan, Thomas J. K.
Baird, William Smyllie	McGowan, Leo Hugh
Barman, Fred, Jr.	McNamee, Leo Aloysius
Bartlett, Alfred Lewis	McNeeley, William Thayer
Biby, John Edward	Morton, Claude Bernard
Brown, Cornelius Cole	Norman, Lucretia
Chandler, Moses	Ohannesian, Aram
Cooper, Morris	Pardue, Samuel
Dieterich, Edward	Parrot, Kent Kane
Dillon, James de Koven	Pearson, George M.
Dunham, Frank Clark	Peck, Earl C.
Eckman, Arthur Wilson	Poole, William Jason
Fairbanks, Frederick Cole	Randall, Lewis Bradley
Finkenstein, Maurice	Richardson, Frank Hull
Geisler, Harold	Richardson, George S.
Hayek, Desiderious F. J.	Schlegel, John
Heffelfinger, Raymond Wiley	Sorenson, Andrew Wesley
Hitchcock, Alonzo Daffin	Thompson, Edgar Isaac
Hopkins, Melville Perry	Wall, Arnold Edward
Hopkins, Charles	Warring, Floyd Sylvan
Howard, James Henry	Watson, Van Hodgen
Hove, Charles Van	Weber, Arthur
Hutt, James	Williams, Charles Floyd
Kelley, Loyal Claire	Winnett, Earl Livesley
Kidder, Albert Augustus	

SUMMER STUDENTS, 1909, NOT ENROLLED DURING
THE YEAR 1909 TO 1910.

Hasking, William Charles	Russell, A. J.
Hart, Abram Caruthers	Schulman, Bernard
Hoyt, Charles	Williams, Charles Ezra
Jack, Ford M.	Yager, Thomas Charles

POST-GRADUATES.

Bowers, Walter
 Crandall, Elbert Earl
 Enyeart, Clair
 Goode, Ray Edgar
 Louis, Irvin Charles
 Monteleone, Stephen

Schweitzer, Dell
 Selph, Ewald
 Smith, Karl Hervey
 Veitch, Arthur Lee
 Willis, William H.

COLLEGE of DENTISTRY

FRESHMEN.

*Andrew, E. P.
 *Avedisian, Albert
 Bedford, Wilbur E.
 Baumgardner, E. W.
 Cannon, Ernest E.
 Coldwell, R. L.
 Collins, C. E.
 Cram, Frank H.
 DeCow, Charles L.
 Davies, Oliver W.
 *Dobson, W. E.
 Duniap, Robert M.
 *Dusendaschon, Henry C.
 Fluallen, W.
 Nall, H. W.
 *Iwata, K.
 Jones, Harry G.
 Holmes, Edw. E.
 Kelly, E. H.
 *Lee, Edward F.
 Moore, F. M.

Nokes, I. D.
 Payette, A. A.
 Peden, Thomas R.
 Pool, C. H.
 Puckett, C. W.
 Reid, E. C.
 *Rohrbacher, E. C.
 *Seeling, Sam I.
 Sparks, P. A.
 Straub, Harry E.
 Sutton, C. L.
 Tanaka, Frank F.
 Todd, G. C.
 *Van Osdell, Charles
 Wells, R. B.
 Williams, Frank
 Wilson, John M.
 Wesner, M. H.
 Yamaguchi, M.
 *Yamatini, George

JUNIORS.

Algeo, Walter S.
 Bidwell, H. H.
 Bundy, Arthur R.

Bailey, H. P.
 Chang, Dai Yen
 Crane, C. W.

*Not in attendance.

Crawford, J. F.
 Crew, Lelia
 Craven, E. A.
 Day, Chester A.
 Dunlap, John F.
 Fukasawa, Harry
 Glassell, H. P.
 Gottlieb, Theodore
 Henderson, M. M.
 Jackman, G. Floyd
 Jackson, A. C.
 Kirkpatrick, H. D.
 Kelsey, Mark
 Maclin, John
 Menges, M. M.
 Messner, Karl M.
 McCoy, John R.
 McElhaney, M. A.

Mitchell, F. W.
 Moore, Leon D.
 Moore, G. W.
 Nance, Ed. F.
 Pertson, Louis A.
 Roberts, Karl K.
 Sargent, Ray
 Schildwachter, Harry
 Snipes, Thomas W.
 Smale John
 Smith, Hyrum G.
 Smithers, John E.
 Stephens, Frank
 Stover, W. T.
 Sunderland, Egbert
 Worth, Clarence
 Yates, Edw. W.

SENIORS.

Ashmore, Grant
 Copp, Joseph P.
 Clark, Earl L.
 Davis, Hugh M.
 *Doyle, Jr., C. A.
 Green, M. T.
 Hendrickson, W. H.
 Jarvis, Hollis A.
 Maile, John V.

Messner, E. M.
 O'Conner, Williams
 Riggs, William A.
 Schuessler, R. W.
 Turrentine, D. E.
 White, Roy M.
 Whitmore, W. T.
 Baskerville, R. L.

COLLEGE *of* MUSIC

Aldred, Ralph
 Abbott, Miss
 Aber, Ruth
 Anderson, Edith
 Ayers, Mrs.
 Ayers, Lucile

Backstrand, Lillian
 Ball, Bessie
 Barnes, Letha
 Barnett, Rena
 Barry, Mrs. J. M.
 Beck, Helen

*Not in attendance.

Best, Edna	Dovaine, Josephine
Bishop, Herold	Ellis, Leila
Black, Lena	Elliott, Verne
Blanchard, Mr. J. V.	Etz, Helen
Blois, Verna	Ferrahian, Mrs.
Boggs, Aura	Fletcher, Maville
Boggs, Ina	Florcken, Vera
Bowman, Esther	Foresman, Earl
Boughton, Hattie	Foster, Ella White
Buffington, Lillian	Freeman, Mary
Buffington, Olive	Freeman, Marcia
Buffington, Elizabeth	Fredenburk, Pauline
Butler, Mattie	Gholz, Walter
Brown, Stella	Gleason, Pearl
Brówn, Myrtle	Goodall, Erle
Bryson, Jenette	Gray, Edith
Cannon, Laura	Greenland, Margaret
Carpenter, Thankful	Hatcher, Joybelle
Carson, Gladys	Harange, Claudyne
Carson, Valarie	Hart, Addie
Chamberlin, Stella	Herold, Berta
Chamberlin, Joie	Hidden, Bertha
Chan, Katherine	Hill, Hazel
Childs, Ruth	Hirst, Harry
Clark, Agnes	Howe, Marion
Clark, Isabella	Hunter, Fanny
Clemons, Eleanor	Ingersoll, Lozie
Cochran, Mrs. J. N.	Jacoby, Arthur
Collins, Lucille	Junkin, Mrs.
Colvin, June	King, Elsie
Cook, Hazel	Knesel, Florence
Coyne, Ethel	Kuhnle, Carl
Crandall, Mrs. Pearl	Lawson, Elvera
Crist, Margaret	Lawrence, Arthur
Davidson, Esther	Lincoln, Bessie
Davis, Mary	Little, Ramona
Day, Blanche	Livingston, Lillian
Dinsmore, Lura	Locke, Ruth
Dinsmore, Margurita	Locke, Lucille

Longwell, Margaret
 Lyman, Maude
 Mallory, Frances
 Martens, Ruth
 McComas, Maud
 Melick, Grace
 Meyer, Emma
 Meyer, Ethel
 Miller, Frances
 Mitchell, Mrs. Martha
 Nave, Junia
 Nickerson, Vida
 Palmer, Edith
 Palmer, Bertha
 Parch, Herold
 Parks, Dora
 Patton, Madge
 Pinkney, Mrs. I. T.
 Plant, Ella
 Poggi, Ruby
 Poole, Ethel
 Price, Ellen
 Pezzoni, Millie
 Read, Mary
 Reeves, Lulu
 Reynolds, Myra
 Rush, Louise
 Scherer, Helen
 Scherer, Dorothy
 Schoeller, Marjorie
 Scoville, Ethel

Sevier, Carrie
 Sevier, Carl F.
 Shaw, Myra
 Shepard, Merle
 Sims, Violet
 Shields, Mildred
 Smith, Grace E.
 Smith, Ethel
 Smith, Leonard
 Smith, Mabel
 Smith, Rachel
 Spencer, Sibyl
 Spencer, Gladys
 Stalker, Elsie
 Stephenson, Clara
 Swain, Frank
 Tagg, Grace
 Tinker, Cleopatra
 Tucker, Myrtle
 Trussell, Mary
 Vignes, Edwine
 Webb, Evah
 Webster, Hallie
 West, Ruth
 Whittemore, Elsie
 Wiles, Edna
 Williams, Emma
 Wildey, Fern
 Winans, Isadora
 Wintrode, Isabel
 Wright, Maude Mary

COLLEGE of FINE ARTS

Anderson, Alfa W.
 Barton, Roberta
 Ballinger, Mrs.
 Baker, J. R.
 Benjamin, Ida M.
 Bridges, Emma

Brugman, Emily
 Buckley, Hannah
 Boening, Marie
 Chess, Edna
 Cock, Alma
 Cronenwett, Clare

Collins, A.	Nelson, Louise
Cohen, Leon	Nieman, Georgia
Conger, Kate E.	Newby, Mrs. N.
Clark, Mary	Nelson, Sophie E.
Clapp, Margaret	Parker, Cora
Connolly, Mary	Putnam, Axion
Davis, Garnet R.	Palmer, Edith
Day, Blanche	Pestor, Olive
Deane, Myneta M.	Peterson, Agnes
Delp, Laura B.	Pickering, Mary
Erkridge, Robert L.	Quail, Mary E.
Ellis, C. G.	Quick, Anna M.
Edwards, Bessie	Ritter, Harriet B.
Gilbert, Florence	Richardson, Amice
Goodrich, Mrs.	Runkel, Caryl
Goodwillie, Anna	Reynolds, Gladys
Gray, Alice C.	Richmond, Ada
Glasscock, Ida	Schmerer, Martha
Glass, Rene	Suell, Catherine
Gould, Margaret	Suell, Sadie
Gross, M. L.	Shields, Alice B.
Hutchinson, Eugenie	Swarb, Eva
Hardy, J. R.	Smith, Vesta F.
Harvey, Harriet A.	Takahasa, K.
Harman, Esther	Thorne, Sua G.
Hipple, W. B.	Taylor, Mrs.
Hallquist, Signe M.	Vigne, Marguerite
Jordan, Mrs.	Wheeler, J. W.
Johnson, Annetta	Waller, Walter
Kattmeyer, Hilda	Winters, Florence
Kinnon, C. A.	Whitman, Elsie
Kelsey, Margery H.	Waters, Myrtle
Kellogg, Winifred	Wirz, Freda
Lang, Amelia	Wallace, Joanna
McGarvay, Wm. E.	Wallace, Kathleen B.
Manny, Virginia	Warner, T. R.
Miller, C. M.	Waters, Myrtle
Miller, Estelle	Zimmerman, Fred A.

COLLEGE of PHARMACY

JUNIORS.

Bohlker, George	Morris, G. Tracy
Browning, F. L.	Pilcher, B. C.
Cooley, Oliver	Pilcher, Theo
Hamilton, Ira	Ramsey, Leslie
Haygood, Paul	Renfrow, Luther
Jewett, Oris	Stabler, Dwight
Lounsberry, J. F.	Strait, Emma
Marchese, V.	Walker, George
Mazy, Eugene	Williamson, G. H.
McGarvin, R. H.	

SENIORS.

DeNubila, R. C.	Hougarrrd, Ralph
Deragisch, Hermann J.	Kalliwoda, H. K.
Drumm, Charles	Richards, L. B.
Finster, Arthur E.	Schelling, Arthur
Hardin, Fannie	Swope, J. Leslie
Heying, Oscar W.	Thurston, Emory

GRADUATE.

Nakamura, Shiro

COLLEGE of THEOLOGY

Akimoto, K.	Hill, J. T.
Crist, Clyde	Hilton, Geo. B.
Clark, H. Brink	Haller, H. H.
Coyne, Robt. J.	Ito, Heijiro
Cooper, Henry C.	Kimura, A. Y.
Dean, Franklin	Laizure, O. C.
Epp, Cornelius	Lloyd, L. D.
Edwards, Frank C.	Lewis, C. P.
Embree, A. B.	McGee, M. S.
Guild, E. D.	Mealy, Roy

Oswald, C. S.	Smith, Vance
Perry, E. H.	Smith, Harold
Ross, Fred H.	Shepherd, Harry
Roberts, C. W.	Shumway, C. W.
Reberger, Wm.	Summers, W. L.
Saylor, O.	Stone, M. K.
Scott, Homer D.	Speight, W. D.
Smith, Geo. H.	Talbott, E. Guy
Smith, Fred A.	Taylor, R. J.
Smith, Ray	Tamura, P. K.

COLLEGE *of* ORATORY

PRIVATE.

Aber, Ruth	Tucumsani, New Mexico
Anderson, Elaine	San Dimas, Cal.
Berryman, Olive	Los Angeles, Cal.
Brown, Laura	Los Angeles, Cal.
Brown, Myrtle	Los Angeles, Cal.
Browning, F. B.	Los Angeles, Cal.
Brubaker, Lora	Glendora, Cal.
Calkins, Alice	Pasadena, Cal.
Dixon, Grace	Long Beach, Cal.
Fredericks, Grace	Globe, Ariz.
German, Nita	Los Angeles, Cal.
Gibson, Harry	East Lake, Michigan
Green, Florence	West Union, Iowa
Green, Gladys	West Union, Iowa
Holley, Clyde	Pomona, Cal.
Howard, Francis	Huntington Beach, Cal.
Jones, L. B.	Los Angeles, Cal.
Kimball, Nellie	Los Angeles, Cal.
Kitts, Lilah M.	Nevada City, Cal.
Lisenby, Carl	Fresno, Cal.
Marchant, Arte	Los Angeles, Cal.
Marshall, Ruby	Los Angeles, Cal.
McComas, Ethel	Pomona, Cal.
McConnell, Hazel	Los Angeles, Cal.

McGorray, Jeanette	Los Angeles, Cal.
Moore, Camille	Los Angeles, Cal.
Morgan, Marion	Long Beach, Cal.
Moses, Marion	Los Angeles, Cal.
Males, Hazel	Los Angeles, Cal.
Nave, Junia	Los Angeles, Cal.
Palmer, Bertha	Compton, Cal.
Pratt, Evelyn	Santa Monica, Cal.
Preston, Alice	Pasadena, Cal.
Robinson, Irene	El Ton, Cal.
Romig, Edith	San Dimas, Cal.
Sansom, Vivian	Woodstock, Ill.
Stivers, Virvinia	Los Angeles, Cal.
Swain, Alma	Whittier, Cal.
Tinker, Cleopatra	Douglas, Ariz.
Ward, Gladys	Los Angeles, Cal.
Wheelan, Robert	Los Angeles, Cal.
Ziegler, Ethel	Fullerton, Cal.

CLASS.

Aber, Ruth	Tucumcani, New Mexico
Adamson, Jessie	Los Angeles, Cal.
Bach, Welcome	Ocean Park, Cal.
Berryman, Olive	Los Angeles, Cal.
Bishop, Harold	Toledo, Ohio
Brodbeck, Mary	Los Angeles, Cal.
Brown, Myrtle	Los Angeles, Cal.
Brown, E. K.	Los Angeles, Cal.
Brown, C. C.	Los Angeles, Cal.
Browning, J. M.	Los Angeles, Cal.
Brubaker, Lora	Glendora, Cal.
Cain, Morris	Santa Ana, Cal.
Calkins, Alice	Pasadena, Cal.
Church, N.	Los Angeles, Cal.
Crabill, Hazel	Los Angeles, Cal.
Dayman, Evelyn	Long Beach, Cal.
Dick, Samuel	Glendale, Cal.
Dixon, Grace	Long Beach, Cal.
Dowds, Roy	Los Angeles, Cal.

Fredericks, Grace	Globe, Ariz.
Epps, Cornelius	Reedly, Cal.
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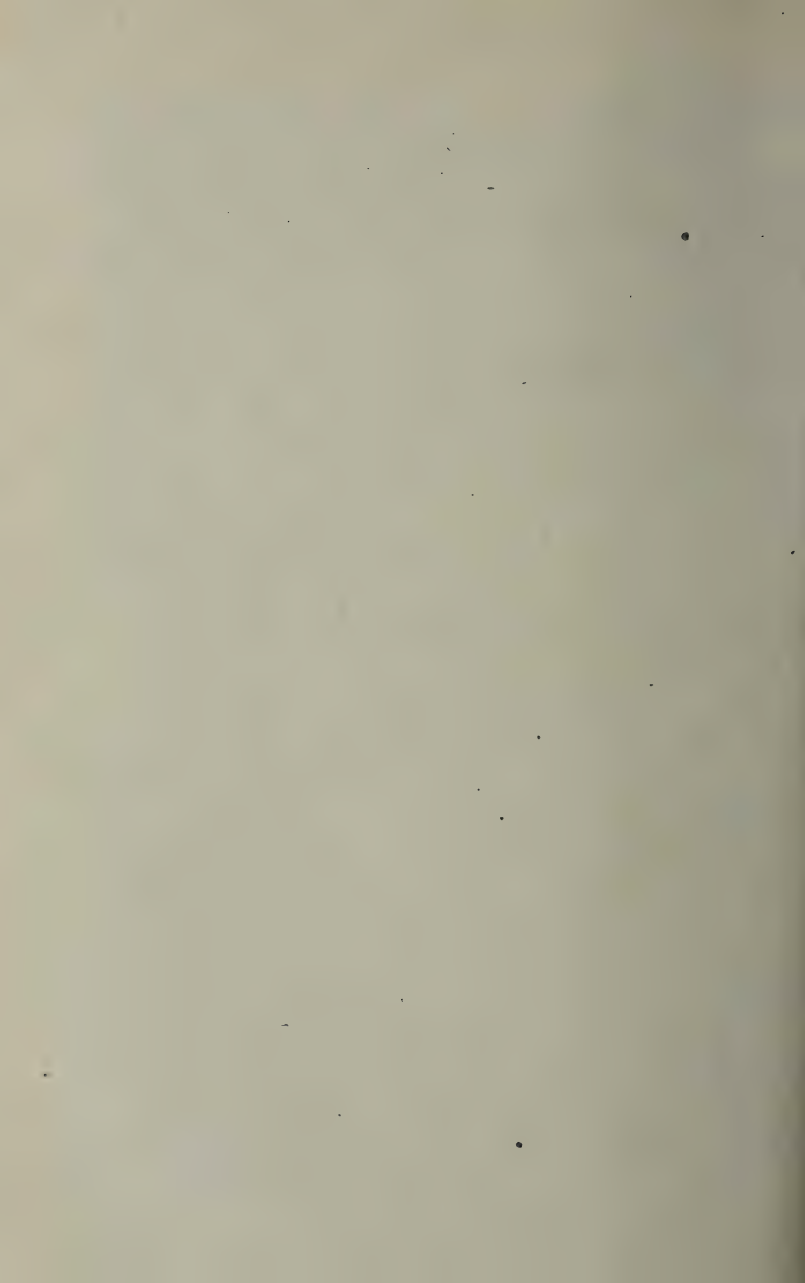
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UNIVERSITY OF SOUTHERN CALIFORNIA BULLETIN

VOLUME VI

MARCH 1911

NUMBER 1



YEAR BOOK *for* 1910-1911



HIGH SCHOOL TEACHER'S CERTIFICATE

AT a meeting of the State Board of Education held in Sacramento February 10 1911, the UNIVERSITY *of* SOUTHERN CALIFORNIA was duly authorized to issue recommendations for the High School Teacher's Certificate.

Students expecting to become candidates for the High School Certificate should communicate with the Graduate Council regarding the particular requirements formulated by the University.

University of Southern California
YEAR BOOK
1910-1911

UNIVERSITY OF SOUTHERN CALIFORNIA BULLETIN

VOLUME VI

MARCH 1911

NUMBER 1



YEAR BOOK *for* 1910-1911

With Announcements for
1911-1912

PUBLISHED BI-MONTHLY BY THE UNIVERSITY
ENTERED AS SECOND CLASS MAIL MATTER AT THE POST OFFICE
LOS ANGELES, CALIFORNIA

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Information concerning any of the colleges, and year-books containing the courses of study, etc., will be mailed upon application to the addresses given above.

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The University Council is a representative body consisting of the President, and the Dean and Secretary (or some other member of the faculty) of each of the several colleges. It is the duty of the Council to consider the courses offered by the several colleges with a view to increasing the efficiency and enlarging the range of University work, encourage original research and adjust all questions involving more than one of the colleges, and to advise the President upon such matters as he may bring before it.

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Los Angeles is the metropolis of Southern California. Its population of about 325,000 represents almost every State in the Union and many foreign lands.

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It is the greatest railroad center on the Pacific Coast. Four transcontinental lines are now complete. A network of electric roads connects the city with the numerous beaches, mountain resorts and outlying towns. These are reached by

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Los Angeles is known as the Convention City of the West. Every year brings large bodies of people here for the discussion of every kind of public interest known to science, politics, religion and the humanities.

These great conventions afford the student an excellent opportunity to study the subjects of their discussion, while the resident population of the city is sufficiently large to afford important advantages for the study of sociology and kindred subjects.

The diverse view-points of the groups of students in the nine colleges make their association an important educational factor.

The University campus is in close proximity to Exposition Park, in which a million dollars are being expended in erecting buildings and beautifying the grounds. The State Exhibit Building will contain exhibits of the products, mineral and vegetable, of every county of the State. The Museum of History, Science and Art will contain the valuable collections of The Historical Society, The Academy of Sciences, The Cooper Ornithological Society, and The Art League of Los Angeles, besides numerous private collections. These buildings will be open to the public. They will afford special advantages to the students and faculties of the University, because of their easy access.

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Laboratory Assistant in Physics.
- Walter Hall.....923 W. 34th St.
Field Assistant in Surveying.
- Clarence W. Cook.....1045 W. 47th St.
Field Assistant in Surveying.
- Kenneth Q. Volk.....822 Mallard St.
Field Assistant in Surveying.

COLLEGE OF PHYSICIANS AND SURGEONS**Senior Faculty**

- Charles William Bryson, A.B., M.D.....401-4 Delta Bldg.
Dean of the Department of Medicine, and Professor of
Gynecology and Abdominal Surgery.
- James Harvey Seymour, M.D.....310-311 Grant Bldg.
Member of the Judicial Council and Professor of Surgery.
- Walter Sydney Johnson, A.B., M.D.....303-304 W. P. Story Bldg.
Secretary-Treasurer of Department of Medicine and Pro-
fessor of Obstetrics.
- Orville O. Witherbee, M.D.....606 Auditorium Bldg.
Professor of Surgery.
- Lyman Brumbaugh Stookey, A.M., Ph.D., 631 Auditorium Bldg.
Professor of Physiology and Chemistry.
- James Tucker Fisher, M.D...603-608 Wright & Callender Bldg.
Professor of Neurology.
- Thompson B. Wright, A.M., M.D.....
.....Kinney-Kendall Bldg., Pasadena, Cal.
Professor of Medicine.
- Sylvester Gwaltney, A.M., M.D.....717 Grosse Bldg.
Professor of Clinical Medicine.
- Francis Oliver Yost, M.D.....2831 Downey Ave.
Professor of Pediatrics.
- William Leander Zuill, M.D.....
.....Kinney-Kendall Bldg., Pasadena, Cal.
Professor of Otology, Laryngology and Rhinology.
- Frederick John Kruell, Ph.G., M.D.....1921 E. Washington St.
Professor of Materia Medica and Therapeutics.
- Thomas Jefferson McCoy, M.D.....636 Security Bld.
Professor of Ophthalmology.
- Harry Oscar White, M.D.....516 E. Washington St.
Professor of Anatomy.

Associate Faculty

- Andrew Fremont Wagner, A.M., M.D.....
1074 North Los Robles Ave., Pasadena, Cal.
 Associate Professor of Bacteriology and Pathology.
- Robert Henry Burton, M.D.414 Grosse Bldg.
 Associate Professor of Anatomy.
- Raphael Burke Durfee, M.D.....308 Fay Bldg.
 Associate Professor of Anatomy.
- E. L. Leonard, B.S., M.D.....631 Auditorium Bldg.
 Associate Professor of Histology and Lecturer on Em-
 bryology.
- Albert B. Ulrey, A.M.....35th St. and Wesley Ave.
 Associate Professor of Comparative Anatomy.
- George Jesse Lund, M.D.....414-417 Auditorium Bldg.
 Associate Professor of Otology, Laryngology and Rhin-
 ology.
- William Harriman Jones, A.B., M.D.....
Stafford Bldg., Long Beach, Cal.
 Associate Professor of Gynecology.
- Henry Michael Rooney, A.B., M.D.....606 Auditorium Bldg.
 Associate Professor of Anatomy.
- John Jay Still, M.D.....301 Douglas Bldg.
 Associate Professor of Orthopedic Surgery, Fractures
 and Dislocations.
- Warren Nichols Horton, M.D.....717 Grosse Bldg.
 Associate Professor of Genito-Urinary Diseases.
- George Washington McCoy, A.M., M.D.....636 Security Bldg.
 Associate Professor of Ophthalmology.
- Reginald S. Petter, M.D.....852 Central Ave.
 Associate Professor of Materia Medica.
- Henry Herbert, M. D.....413-415 Grosse Bldg.
 Associate Professor of Medicine.
- Louis Weber, B.S., M.D.....510-514 Lissner Bldg.
 Associate Professor of Medicine and Instructor in Elec-
 tro-Therapeutics.
- Anstruther Davidson, C.M., M.B., M.D...544-546 Wilcox Bldg.
 Associate Professor of Dermatology.

- Clarence Holmes Criley, Ph.B., M.D.....404 Auditorium Bldg.
Associate Professor of Anatomy.
- John C. Ferbert, M.D.....222 Bradbury Bldg.
Associate Professor of Surgical Anatomy.
- Edward Douglass Jones, M.D.....3146 Vermont Ave.
Associate Professor of Therapeutics.
- Charles C. Browning, M.D.....1004 W. P. Story Bldg.
Associate Professor of Clinical Medicine.
- Alanson Halden Jones, A.M., M.D.....631 Auditorium Bldg.
Assistant Professor of Physiology and Chemistry.
- Edward William Hanlon, M.D.....510 Lissner Bldg.
Assistant Professor of Medicine and Lecturer on
Diseases of Digestive Organs.
- Dallas Case Ragland, M.D.....401 Delta Bldg.
Assistant in Bacteriology and Lecturer on Serology.
- Thomas James Cummins, M.D.....319-320 I. W. Hellman Bldg.
Assistant Professor of Neurology.
- William Elmer Carter, M.D.....606 Auditorium Bldg.
Instructor in Medicine.
- Donald George Turnbull, M.D.....
.....614-618 Broadway Central Bldg.
Instructor in Pathology.
- Francis Earl Brown, A.B., M.D.....
.....410-416 Wright & Callender Bldg.
Instructor in Medicine.
- Earle M. Brown, B.S., M.D.....1064 W. Seventh St.
Instructor in Clinical Medicine.
- Harvey Smith, M.D.....1003-5 Walter P. Story Bldg.
Instructor in Clinical Medicine.
- Peter C. Remondino, M.D.....San Diego, Cal
Lecturer on History of Medicine and Medical Bibli-
ography.
- Henry E. Southworth, M.D.....Wright & Callender Bldg.
Lecturer on Gynecology.

H. Wilson Levengood, M.D.
 Marine St. and Ocean Front, Ocean Park
 Lecturer on State Medicine and Hygiene.

Frank E. Hull, M.D. 405 Auditorium Bldg.
 Assistant Demonstrator of Anatomy.

COLLEGE OF DENTISTRY

Lewis E. Ford, D.D.S., Dean Security Bldg.
 Professor of Operative Dentistry.

Henry G. Brainard, A.B., M.D. Exchange Bldg.
 Emeritus Professor of Medicine.

William C. Smith, D.D.S. Pasadena, California
 Professor of Dental Pathology.

Edward M. Pallette, Ph.D., M.D. Hellman Bldg.
 Special Lecturer on Nervous Physiology.

H. Gale Atwater, D.D.S. 1920 E. Fourth St.
 Professor of Operative Technics.

William Bebb, D.D.S. Dental College Bldg.
 Secretary. Professor of Comparative and Dental An-
 atomy.

Charles D. Lockwood, A.B., M.D. Pasadena, California.
 Professor of Oral Surgery and Anaesthesia.

E. L. Leonard, B.S., M.D. Auditorium Bldg.
 Professor of General and Dental Histology, General
 Pathology and Bacteriology.

B. F. Eshelman, D.D.S. Story Bldg.
 Professor of Prosthetic Dentistry, Porcelain and In-
 firmary Demonstrator.

Clarence A. Jenks, B.S., M.D. Douglas Bldg.
 Professor of Physiology.

A. H. Jones, A.B., M.D. Bradbury Bldg.
 Professor of Physics, Chemistry and Metallurgy.

Garrett Newkirk, M.D. Pasadena
 Professor of Ethics and Hygiene.

J. D. McCoy, D.D.S. Story Bldg.
 Professor of Orthodontia.

- B. Frank Gray, D.D.S.....Security Bldg.
Professor General and Dental Materia Medica Therapeutics.
- C. H. Bowman, D.D.S.....Laughlin Bldg.
Professor of Crown and Bridge Work.
- M. Evangeline Jordon, D.D.S.....Wright & Callender Bldg.
Associate Professor of Operative and Clinical Dentistry (Children's Teeth).
- H. B. Tebbetts, M.D.....Bradbury Bldg.
Associate Professor of Physiology.
- J. Walter Gray, D.D.S.....Security Bldg.
Assistant Professor of Operative Dentistry.
- C. J. R. Engstrom, D.D.S.....Auditorium Bldg.
Lecturer and Demonstrator in Prosthetic and Crown and Bridge Technic.
- Eugene Overton, Esq.....Trust Bldg.
Lecturer on Dental Jurisprudence.
- A. A. Shaw, D.D.S.....Bryson Bldg.
Lecturer on Extraction and Anaesthetics.
- Nye W. Goodman, D.D.S.....W. P. Story Bldg.
Lecturer and Demonstrator on Porcelain, Crown and Bridge Work.
- David D. Thornton, M.D.....Douglas Bldg.
Lecturer on Oral Surgery.
- John G. Sheafer, D.D.S.....O. T. Johnson Bldg.
Assistant to the Chair of Operative Technic.
- M. Ellis, Ph.D., M.D.....Dental College
Lecturer and Demonstrator on Anatomy.
- Byron P. Stookey, M.A.....Auditorium Bldg.
Lecturer and Demonstrator on Anatomy.
- L. H. Wentworth.....College
Assistant in Chemistry.
- Claire W. Murphy, M.D.....Lissner Bldg.
Special Lecturer on Anatomy.
- A. N. Lord, D.D.S.....Dental College
Demonstrator Infirmary.

A. C. La Touche, D.D.S.....	Dental College Demonstrator Infirmary.
Warren D. Gill, D.D.S.....	Dental College Demonstrator Infirmary.
Forney Burt, D.D.S.....	Dental College Assistant in Porcelain Work.
Dr. D. Cave.....	Lankershim Building Special Lecturer Clinical Dentistry.
E. L. Townsend, D.D.S.....	Wright & Callender Building Special Lectures and Clinics on Porcelain and Electric Furnaces.
C. M. Benbrook, D.D.S.....	Auditorium Building Special Lecturer on Clinical Dentistry.
W. W. Mungen, D.D.S.....	Mason Building Special Work in Clinical Dentistry.
M. W. Hollingsworth, D.D.S.....	Santa Barbara Special Clinical Demonstrator.
William Bebb, D.D.S.....	Superintendent of the College.

COLLEGE OF LAW

Frank M. Porter, A.B., LL.M., Dean.....	Exchange Bldg. Evidence, Bailments and Carriers, Personal Property, Wills and Probate Law.
Gavin W. Craig, LL.M. (Judge of the Superior Court)....	185 Virgil Ave. Elementary Law and Blackstone, Real Property, Water Rights and Irrigation Law.
Frank R. Willis, LL.B. (Judge of the Superior Court)	154 W. Johnson St. Criminal Procedure.
W. H. Cheney (Ex-Judge of the Superior Court).....	3816 Brooklyn Ave. Constitutional Law.
W. P. James (Judge of the Superior Court).....	1131 Magnolia Ave. Negligence.

James R. Townsend, Esq.....	430 Bradbury Bldg. Patents.
T. W. Robinson, A.M.....	604 Merchants Trust Statutory Interpretation, Briefing and the Use of Books.
Hon. Lewis A. Groff.....	Exchange Bldg. Agency and Mining Law.
Clair S. Tappaan, LL.B.....	257 S. Spring Contracts, quasi Contracts, Partnership and Commer- cial Paper.
W. T. Craig, Ph.D.....	635 S. Westlake Bankruptcy.
James G. Scarborough, A.B.....	213 S. Broadway Code Pleading.
Frank James, Esq.....	529 Douglas Bldg. California Lien Law.
J. W. Swanwick, Esq.....	446 S. Boyle Ave. Mortgages.
John D. Pope, Esq.....	1327 S. Vermont Ave. Legal Ethics.
E. W. Tuttle, LL.B.....	H. W. Hellman Bldg. Admiralty and Conflict of Laws.
Seward A. Simons, A.B.....	810 Security Bldg. Insurance Law.
George H. Woodruff, Esq.....	410 Douglas Bldg. Private Corporations.
Walter F. Haas, Esq.....	302 Coulter Bldg. Municipal Corporations and Public Officers.
Beulah Wright.....	444 St. Andrew's Place. Public Speaking.
H. C. Dillon, M.A.....	684 Benton Blvd. Common Law Pleading.
Albert Lee Stephens, LL.B.....	Whitney, near Temple St. Justice Court Practice.
George H. Hutton (Judge of the Superior Court).....	Santa Monica Underground Waters.

Kemper B. Campbell, LL.B.....	416	L. A. Trust Torts and Damages. Junior Real Property.
Percy V. Hammon, LL.B.....	472	Custer Criminal Law.
Willoughby Rodman, A.B., B.L.....	436	Citizens Bank Bldg. International Law.
Warren E. Lloyd, Ph.D., M.L.....	906	Central Bldg. Spanish and Mexican Land and Mining Law, and Philosophy of the Law.
E. W. Camp, A.B., LL.B.....		Security Bldg. Interstate Commerce.
William W. Phelps.....	604	Merchants Trust Bldg. Codification.
W. J. Hunsaker, Esq.....	356	S. Spring St. Contracts in Restraint of Trade.
Vincent Morgan, LL.B.....	618	Exchange Bldg. Domestic Relations and Criminal Law.
Chas. C. Montgomery, A.B., LL.B.....	401	Bradbury Bldg. Equity Pleading, Equity Jurisprudence and Federal Pro- cedure.
Curtis D. Wilbur (Judge of the Superior Court).....		
	822	S. Alvarado Extraordinary Legal Remedies.
Frederick W. Houser (Judge of the Superior Court).....		Private Corporations.
Festus Edward Owen, A.M.....	621	W. 34th St. Logic.
Carlos S. Hardy, D.C.L.....	230	Exchange Bldg. Fraternal Insurance and Medical Jurisprudence.
Arthur P. Will, LL.M.....		Trusts and Monopolies, and Treaties.

JUDGES OF THE MOOT COURT

Gavin W. Craig, LL.M.	E. R. McDowell, LL.M.
Kemper B. Campbell, LL.M.	Robert A. O'Dell, LL.B.
Walter L. Bowers, LL.B.	L. B. Binford, LL.B.
Vincent Morgan, LL.B.	J. S. McKnight, LL.B.

COLLEGE OF MUSIC

Walter Fisher Skeelee, A.B., Dean.....	215 Thorne St.
Professor of Piano and Pipe Organ.	
Charles E. Pemberton, Secretary.....	678 S. Burlington
Professor of Violin, Harmony, Counterpoint, History and Musical Theory.	
Mrs. Norma Rockhold Robbins.....	911 Lomita, Glendale, Cal.
Voice Culture.	
Horatio Cogswell.....	1244 Van Ness Ave.
Voice.	
Carrie A. Trowbridge.....	1045 W. 35th Place
Piano.	
Lillian M. Arnett.....	947 W. 34th St.
Piano.	
Madge Patton.....	1210 Valencia St.
Piano and Dunning System.	
Herr Oscar B. Seiling.....	Blanchard Hall
Violin.	
William H. Mead.....	Blanchard Hall
Flute.	
C. S. Delano.....	2610 W. 8th St.
Guitar and Mandolin.	
Pearl Alice Macloskey.....	1017 W. 36th St.
Secretary to the Dean.	

COLLEGE OF ORATORY

Beulah Wright, Dean.....	444 St. Andrew's Place
Professor of Oratory and Speaking Voice.	
Gertrude Comstock, Ph. B.....	1247 W. 7th St.
Professor of Interpretation, Forensics, Physical Training.	
Elizabeth Yoder.....	1313 W. 8th St.
Professor of Dramatic Art, Shakespeare.	
Leonard G. Nattkemper.....	
Associate Professor of Public Speaking and Expression.	

Edna June Terry, A.B.....	1313 W. 8th St.
Assistant Professor of Dramatic Art and Expression.	
Albert B. Ulrey, A.M.....	1435 W. 22d St.
Professor of Physiology and Hygiene.	
James Main Dixon, A.M., L.H.D., F.R.S.E.....	417 Cervera St.
Professor of English Language and Literature.	
Dean Cromwell.....	1045 S. Boyle Ave.
Director of Physical Education for Men.	
Tully C. Knoles, A.M.....	275 E. 49th St.
Professor of History.	
Odell Shepard, A.M.....	1055 W. 35th Place
Associate Professor of the English Language and Literature.	

COLLEGE OF FINE ARTS

William L. Judson.....	212 Thorne Street
Dean.	
Arley G. Tottenham.....	941 Lake Street
Drawing.	
Nell Danley Brooker.....	College of Fine Arts
Design.	
Alfa Wood Anderson.....	College of Fine Arts
Metal, Crafts.	
Marion Chaddock.....	1500 W. 20th St.
Mythology.	
F. Brawn Hipple.....	San Pedro
Anatomy.	
Helen Ward.....	918 W. 6th St.
Sacred History.	
Signe Halquist.....	Monrovia
Pottery.	
Clara M. Cronenwett.....	Monrovia
Water Color.	

John W. Nichols.....1920 Summit Ave., Pasadena
Examiner.

Meda Dilchrist.....1639 W. 53rd St.
Art History.

COLLEGE OF PHARMACY

Laird J. Stabler, M.S., Ph.C.....1122 W. 30th St.
Dean and Professor of Chemistry and Toxicology.

Albert B. Ulrey, A.M.....1435 W. 23rd St.
Professor of Physiology and Botany.

Arthur R. Maas, Ph.C.....946 Blaine St.
Professor of Pharmacy.

Andrew C. Life, A.M.....1370 W. 36th Place
Assistant Professor of Microscopy and Pharmacognosy.

John H. Blumenberg, Ph.G.....
Instructor in Pharmacy.

Charles W. Hill, Ph.G.....906 E. 3rd St.
Lecturer on Materia Medica.

Howard A. Peairs, A.B.....319 N. Los Angeles St.
Lecturer on Pharmacal Jurisprudence.

Erwin H. Miller, B.S.....1051 W. 35th St.
Lecturer on Food and Drug Adulteration.

L. Schiff.....1337 S. Hope St.
Lecturer on Commercial Pharmacy.

C. L. Lowman, M.D.....430 S. Broadway
Lecturer on First Aid to the Injured.

Dean Cromwell.....1045 S. Boyle Ave.
Director of Physical Education.

COLLEGE OF THEOLOGY

Ezra A. Healy, A.M., D.D.....1131 W. 36th St.
Dean. Historical and Systematic Theology.

George W. Coultas, A.B., S.T.B.....1006 W. 22nd St.
Historical Theology and Comparative Religions.

- James Blackledge, A.M.....3774 W. 23rd St.
Hebrew Language and Literature.
- Matt S. Hughes, D.D., LL.D.....Pasadena
Pastoral Theology and Homilistics.
- John G. Hill, A.M., S.T.B.....854 W.35th St.
Exegesis and Hermeneutics.
- Festus E. Owen, A.M.....621 W. 34th St.
New Testament Greek.
- James Main Dixon, A.M., L.H.D., F.R.S.E.....417 Cervera St.
Early Saxon Gospels.
- Rockwell D. Hunt, A.M., Ph.D.....1319 W. 37th Place
Sociology.

COLLEGE OF LIBERAL ARTS

CALENDAR

1911

- September 12 (Tuesday) to Sept. 14 (Thursday).
Entrance Examinations and Registration for
the First Semester.
- September 15 (Friday).
Instruction begins and first Assembly of First
Semester held.
- November 23 (Thursday) and November 24 (Friday).
Thanksgiving Vacation.
- December 18 (Monday). Christmas Vacation begins.

1912

- January 1 (Monday). Christmas Vacation ends.
- January 25 (Thursday).
Day of Prayer for Colleges.
- January 29 (Monday) to February 6 (Tuesday).
Mid-Year Examinations.
- February 6 (Tuesday) to February 8 (Thursday).
Entrance Examinations and Registration for
the Second Semester.
- February 9 (Friday).
Instruction begins, and First Assembly of
Second Semester held.
- February 22 (Thursday).
Washington's Birthday.
- March 25 (Monday) to March 31 (Sunday).
Spring Vacation.
- June 3 (Monday) to June 11 (Tuesday).
Final Examinations.
- June 9 (Sunday). Baccalaureate Sunday.
- June 13 (Thursday). Commencement.
- June 13 (Thursday). Alumni Reunion and Banquet.
- June (—) to July (—). Six Weeks' Summer Session.

ADMISSION TO THE FRESHMAN CLASS**1.—Admission by Certificate**

Candidates for admission to the freshman class must be at least sixteen years of age and must present evidence of good moral character. They must also give, either by certificate or by examination, evidence of preparation in 15 units of preparatory subjects selected from the general list of subjects described on the following pages. These 15 units must be made up of the following:

English,	2 units*
A Foreign Language,	2
Science,	1
Algebra and Plane Geometry,	2
U. S. History and Civics,	1
Electives,	7

The electives are determined entirely by the requirements for admission to the college course which the student desires to pursue.

For admission to the Engineering Course the 15 units must include the following:

English,	2 units
A Modern Language,	2
Chemistry,	1
Physics,	1
Elementary Algebra,	1
Advanced Algebra,	1
Plane Geometry,	1

*The term "unit" is used to denote a preparatory subject studied through one school year with five class exercises (or the equivalent) per week.

Trigonometry and Solid Geometry, . . .	1
U. S. History and Civics,	1
Freehand Drawing,	1
Mechanical Drawing,	1
Electives,	2

Candidates who have completed a regular course in the Preparatory School of this University, or in an accredited high school, may be admitted to the College of Liberal Arts without examination, on presenting a certificate signed by the principal. Unconditional credit will be given only for entrance subjects in which the candidate is specifically recommended. Recommendations will be accepted from any school accredited by this University, Leland Stanford Junior University, or the University of California. The faculty reserves the right, however, to require an examination upon any or all of the studies set for entrance, whenever there is doubt that the preparation has been sufficient. To insure entrance without examination credentials should be presented as early as possible before registration.

2.—Admission by Examination.

The regular examination for admission will begin Tuesday, September 12, 1911, when candidates will be examined in all the required admission subjects not covered by certificate from an accredited school.

3.—Conditional Admission.

Candidates may be conditionally admitted to the freshman class, if they are not deficient in more than twenty semester hours (two units of preparatory work, but each case is referred to a faculty committee and only by vote of this committee can such admission be gained. They must, however, remove all such conditions before they may obtain junior standing.

PREPARATORY SUBJECTS

The following items will serve to indicate both the kind and the amount of work expected in the different preparatory subjects accepted for admission, as well as the units of credit allowed for the same.

1. English. A short essay on an assigned subject will be called for, with the purpose of testing accuracy in spelling, punctuation, division into paragraphs, and power of expression in clear and correct English.

The candidate will also be required to give evidence of a thorough study of elementary rhetoric and classic myths; and will be tested as to his knowledge of the subject matter, form and structure of the following works (or their equivalent):

Scott's *Lay of the Last Minstrel* and *Ivanhoe*; Hawthorne's *Tales of the White Hills*; Selections from Irving's *Sketchbook*; Lowell's *Vision of Sir Launfal*; De Coverly Papers; Coleridge's *Ancient Mariner*; George Eliot's *Silas Marner*; Carlyle's *Essays on Burns*; Macaulay's *Essays on Warren Hastings*; Tennyson's *Idylls of the King*; Shakespeare's *Merchant of Venice* and *Julius Caesar*. (2 units.)

2. English Literature With outline history of its development. Chaucer's *Prolog*; Gray's *Elegy*; Wordsworth's *Tintern Abbey*, and *Odes on Intimations of Immortality and Duty*; Milton's *Minor Poems*; Shelley's *Odes To Night and To a Skylark*; Keats' *Ode to a Nightingale*; Browning's *Epilogue to Assolando* and *Rabbi Ben Ezra*; Burke's *Conciliation*; Webster-Hayne Debate; Shakespeare's *Midsummer-Night's Dream* and *Macbeth*. (1 unit.)

[Note: When a candidate shall offer, in addition to the above, an equivalent amount of other classics such as may be acceptable to the department of English, another unit will be granted.]

3. Elementary Algebra. This should include the following subjects: The four fundamental operations with emphasis placed on the type-forms in multiplication and division,

factoring, highest common factor, and lowest common multiple, fractions and fractional equations, simultaneous equations of the first degree, the binomial theorem for a positive integral exponent, evolution, theory of exponents, radicals, quadratic equations, and the solution of problems involving the various classes of equations. Emphasis should be placed on factoring and on the solutions of equations. (1 unit.)

4. Advanced Algebra. This should include the following subjects: Mathematical induction; the proof and the use of the remainder and the factor theorems; the binomial theorem for a positive integral exponent; evolution, including the extraction of any root of algebraic polynomials, and also of arithmetic numbers; theory of exponents; complex numbers; radicals, and irrational equations; theory of quadratic equations; simultaneous quadratics; inequalities; ratio, proportion and variation; arithmetic, geometric and harmonic series. Emphasis should be placed on the solution of equations by factoring, and on the demonstration of laws and principles. (1 unit.)

5. Plane Geometry. This includes the usual theorems and problems of elementary plane geometry. An important part of the work should be the solution of original exercises including problems in mensuration. (1 unit.)

6. Trigonometry and Solid Geometry. The development of the general formulae of elementary plane trigonometry; the theory of logarithms and the use of logarithmic tables; the numerical solution of plane triangles, and of simple problems in heights and distance. The fundamental propositions of solid geometry and especially those of spherical geometry. (1 unit.)

7. Chemistry. Laboratory and text-book work for one school year, such as outlined in Remsen's *Introduction to the Study of Chemistry*, or Newell's *Experimental Chemistry*. At least four hours per week throughout the year is required of actual laboratory practice in order to complete the amount of laboratory work desired. (1 unit.)

8. Physics. The equivalent of one year's work, including both laboratory and text-book work. Accurate notes of the laboratory work should be kept. Gage's Elements, or Carhart and Chute's High School Physics will serve to indicate the amount of text-book study required. (1 unit.)

9. Botany. A study in the laboratory and field of types of plant groups. Drawings and notes made directly from the specimens must be submitted as evidence of the character of the work done. A full year's work. (1 unit.)

10. Zoology. One year's work on the structure, relationship and habits of animals. Laboratory note-books with drawings will be required. (1 unit.)

11. Physiology. An equivalent of Martin's Human Body, —Shorter course. (1 unit.)

12. Physical Geography. The study of one of the leading text-books supplemented by at least forty exercises in individual laboratory work. (1 unit.)

13. Elementary Latin. For the requirements of Elementary Latin an accurate pronunciation is necessary, a thorough knowledge of regular form and principles of syntax a vocabulary of about fifteen hundred words, and the ability to translate easy prose at sight, and to write simple sentences. These attainments can be secured from the careful study of an elementary text-book and four books of Caesar, together with oral and written composition and occasional practice in sight translation. The examination in composition in 1911-1912 will be based on the second book of Caesar's Gallic War. (2 units.)

14. Advanced Latin. For the requirements of Advanced Latin the ability to translate at sight portions of Cicero's orations and Vergil's Aeneid is necessary, familiarity with the principles of the Latin hexameter and the ability to translate a passage of connected English based on Cicero. These attainments can be secured from the careful study of six of Cicero's orations and six books of Vergil's Aeneid, together

with very thorough drill in oral and written composition. It is expected that a certified composition book will be presented for entrance credit. The examination in composition in 1911-1912 will be based on the oration *Pro Archia*. 2 units; without the composition, 1 unit.)

15. Elementary Greek. Grammar and Lessons; *Anabasis*, book I-III; prose composition. (2 units.)

16. Advanced Greek. *Anabasis*, book IV; *Iliad*, books I-III; prose composition; sight reading; review of the Grammar. (1 unit.)

17. German. A knowledge of the inflections of articles, nouns, adjectives, pronouns, weak verbs and usual strong verbs; also of the use of the modal auxiliaries, the common prepositions, the simpler uses of the subjunctive, and the order of words; the reading and translation of stories and plays, such as Storm's *Immense* and Benedix's *Der Prozess*; translation of easy English into German, translation at hearing and pronunciation. (2 units.)

18. French. A knowledge of the essentials of grammar, including the inflections of nouns, adjectives, pronouns, regular and common irregular verbs; the use of personal pronouns and the elementary rules of syntax; ability to pronounce accurately and to read smoothly; translation of modern stories and plays, such as About's *Le Roi des Montagnes* and Labiche and Martin's *Le Voyage de M. Perrichon*; translation at hearing and at sight; translation of easy English into French. (2 units.)

19. Spanish. Grammar, Garner, Monsanto or De Tornos; reading from Matzke's *Spanish Readings*, Knapp's *Spanish Readings*, Pepita Jiminez; translation of easy English into Spanish, and simple conversation in Spanish. Special importance attached to a knowledge of Spanish verbs. (2 units.)

20. English History. Coman and Kendall or an equivalent. (1 unit.)

21. **Grecian and Roman History.** Myers, or an equivalent. (1 unit.)

22. **Mediaeval and Modern History.** Myers, or an equivalent. (1 unit.)

23. **United States History and Civil Government.** Channing, and Fisk, or an equivalent. (1 unit.)

24. **Freehand Drawing.** The study of light and shade and perspective by drawing and shading with pencil from geometric and simple life objects. ($\frac{1}{2}$ to 1 unit.)

25. **Mechanical Drawing.** The use of drawing instruments in line work, the construction of geometrical problems, and simple detail drawing. ($\frac{1}{2}$ to 1 unit.)

Note—In the case of students graduated from a recommended high school credit may be allowed for such subjects, not designated in this list, as are recommended by the principal and approved by the University faculty.

Candidates who offer subjects in Science will be required to present their note-books in the same.

ADMISSION TO ADVANCED STANDING

Students from other institutions of recognized collegiate rank may be admitted to such standing and upon such terms as the Faculty may deem equitable, upon presentation of letters of honorable dismissal. Every such candidate is required to present a catalogue of the institution in which he has studied, with a full statement, duly certified, of the subjects he has completed, including subjects passed at entrance as well as those credited. The faculty reserves the right to determine, after a test of at least one semester, the amount of credit which a student may receive.

Graduates of State Normal Schools who are also graduates of accredited high schools may, upon the satisfactory completion of 75 semester hours, receive advanced credit amounting to 30-45 units toward a degree of Bachelor of Arts.

ADMISSION AS SPECIAL STUDENTS

Persons of maturer age who desire to take up special work in one department, or in one subject with its related branches, may be admitted as special students, without becoming candidates for a degree; but they may become candidates by satisfying the entrance requirements for a regular course. Such students come under the same regulations as regular undergraduates, and forfeit their privileges by failure to maintain a good standing.

MATRICULATION AND REGISTRATION

On or before the appointed registration days, in September and February, each student must register at the Registrar's office, and must enter upon a study card the subjects desired for the semester.

The study card, properly filled out and signed by the major professor and the Registrar, must be filed in the office not later than one week after the last appointed registration day. Late study cards will be accepted only upon the payment of a special fee of one dollar. A student desiring to enter any class must present his study card to the instructor for enrollment.

Students are urged to register on the appointed registration days. Absence from classes or laboratory are counted from the day on which instruction begins, and these absences incur the penalties stated under Absence from Exercises.

In the choice of subjects, all work necessary to remove conditions must be provided for first; and required subjects must take precedence of elective subjects.

Credentials will be considered at any time of the year, but since in general candidates cannot be assured of admission to the University without examination, it is important that credentials be forwarded as early as possible. Blanks for admission may be obtained by application to the Registrar's office.

GRADUATION

The Degree of Bachelor of Arts

The College of Liberal Arts offers as many courses from which the student may elect as there are departments in which a major is offered.

Each course the student may pursue is designed to give a liberal education and, except in the Engineering course, leads to the degree of Bachelor of Arts (A.B.).

The student must complete one hundred twenty semester hours of college work (exclusive of the requirement in Physical Education), which includes the required subjects, a major in one department, and a related minor.

A semester hour means one exercise a week throughout a semester. It is intended that each hour of credit shall represent, for the average student, one hour of recitation or lecture, and two hours of preparation or subsequent reading per week, or an equivalent amount of work in laboratory courses.

Fifteen hours per week of recitations or lectures, or their equivalent in laboratory work, constitute an average semester's work. Students may register for as few as thirteen or as many as eighteen hours by making application to the Registrar.

The end of the sophomore year marks a differentiation in the work of the undergraduate course. In the junior and senior* years the aim is toward University work in the true sense.

REQUIRED SUBJECTS

In all the courses except in the Engineering Courses, in which the student is a candidate for the bachelor's degree, he must complete work as follows:

English, Rhetoric I., one year, six hours.

Science, one year, eight hours. (The science may be Chemistry, Zoology, Physics or Botany.)

Philosophy, one year, six hours.

Foreign Language, two years, twelve hours. (The language may be Latin, Greek, German, French, Spanish or Italian.)

History or Economics, one year, six hours.

Physical Education, four hours.

The Freshman year should be devoted to the completion of thirty hours of these required subjects.

In the Engineering Courses the work of the four years is required as outlined under Engineering Courses.

Major and Minor Subjects

Each undergraduate student must select the work of some one department as his major subject, but the selection may be deferred until the second year. The requirements for major work, which range from a minimum of twenty-four to a maximum of thirty hours, are stated elsewhere under Courses of Instruction. An equivalent of ten hours' work must be taken in a related subject, known as the minor subject, and selected with the approval of the major professor.

Where a student who has already selected his major subject desires to change it, and is able to meet the requirements of the new major subject, the change can be made, if approved by the professor of the old and new major subjects.

Elective Subjects

Except for the above required subjects, and the requirements of the major and minor subjects, the work required for graduation is elective; but the student will confer with the professor of the major subject, as well as with the President of the University, in selecting such subjects as bear some useful relation to the course he is pursuing.

Classification of Students

Students who have no entrance conditions, and who have completed thirty semester-hours of the freshman year, are classed as sophomores.

Those who have completed sixty semester-hours are classed as juniors.

Those who have completed ninety semester-hours are classed as seniors.

Students who have completed one hundred twenty-four semester-hours, including all required work, and a major in one department with a related minor, are entitled to receive the degree of Bachelor of Arts.

ABSENCE FROM EXERCISES

1. Excuse must be rendered for all absences from required exercises.

2. A student who is absent during a semester from more than one-tenth of the whole number of recitations or laboratory periods held in any subject shall be required to pass a special examination in that subject.

3. Where a student is absent from more than one-sixth of the whole number of recitation or laboratory periods, held during a semester in any subject, his registration in that subject is thereby cancelled. In case of such cancellation, however, if the student can show cause for his absence, and if his previous standing be such as to indicate that he can make up his loss and maintain a satisfactory grade of work in the subject, he may present his case to the Faculty and have his registration restored.

In applying this rule absence from the first or last recitation in a study, or consecutive absence in which either the first or last recitation is included, will be counted each as two absences.

4. Assembly exercises are held on Tuesday at 11:45 for Lower Division students; and on Thursday at 11:45 for Upper Division students. Attendance is required.

EXAMINATIONS AND GRADES

Regular examinations are held at the close of each semester in the studies that have been pursued in different classes. After the examination, the parent or guardian of every student receives from the office a report, giving the student's standing for the semester. The general character of the work of the students in their several subjects is indicated by one of four grades, ranging from grade A, denoting the highest excellence, through B and C, in a descending scale of merit to F, which signifies failure to pass.

A student whose work in a subject is marked conditioned or incomplete is delinquent in that subject. Such delinquency must be made up, in such manner as the instructor may determine, before the close of the year next after that in which the delinquency occurs. If the delinquency be not thus made up, the student is required to take the subject again with a class before he may receive credit for the same. A grade F may be removed only by taking the subject in class again.

When a student has incurred a failure in a subject he may not register for more than thirteen hours of new work in the following semester.

OPTIONS IN THE PROFESSIONAL COLLEGES

When seventy-two hours (including all required work) have been made in the College of Liberal Arts, a student wishing to enter upon his professional studies before graduation from the College of Liberal Arts, may take the studies of the first year in the Medical Department of the University, and may receive the degree of Bachelor of Arts upon the satisfactory completion of three years' work in the professional course. Students electing this course are supposed to have completed a course similar to course C. or D. in the Preparatory School of the University, that is, requiring Drawing, Chemistry and Physics. At least one year of Latin is also required. (Any of these subjects not offered for entrance should be taken the first year.)

The required subjects in the College of Liberal Arts are the same as those for the regular candidate for the degree A.B., except that Zoology should be the elected Science, and German, the elected Language (provided Latin has been offered for entrance.)

The Pre-Medical Course (including required subjects) is outlined as follows:

Freshman Year

English, Rhetoric I., throughout the year, 3 hours.

Science, Zoology, throughout the year, 4 hours.

Language, German (if Latin has been offered for entrance) throughout the year, 5 hours.

History or Economics, throughout the year, 3 hours.

Elective, throughout the year, 3 hours.

Total, 18 hours per semester.

Sophomore Year

Philosophy, Psychology, throughout the year, 3 hours.

Language, German, throughout the year, 3 hours.

Elective (Biology, English and History specially recommended), throughout the year, 12 hours.

Total, 18 hours.

The regulations for the current year shall prevail concerning fees.

When 94 hours (including all prescribed work) have been made, and of these not less than 72 in the College of Liberal Arts, the student may take the studies of the first year of the College of Law, and may receive the degree of Bachelor of Arts upon the satisfactory completion of two years in the professional course.

THE DEGREE OF BACHELOR OF SCIENCE IN THE ENGINEERING COURSES

The degree of Bachelor of Science in Civil Engineering is conferred upon such candidates as may complete the four year's course in Civil Engineering.

The degree of Bachelor of Science in Electrical Engineering is conferred upon such candidates as may complete the four years' course in Electrical Engineering.

THE GRADUATE DEPARTMENT

Organization

The Graduate Department of the College of Liberal Arts of the University of Southern California is under the immediate charge of members of the Faculty known as the "Graduate Council," appointed by the president of the University. The Council for the college year 1910-11 is composed of the following members: Professors James H. Hoose, Chairman; Rockwell D. Hunt, Secretary; Thomas B. Stowell, James M. Dixon, Edgar M. von Fingerlin, and Gilbert E. Bailey.

Purpose

It is the purpose of this department: 1. To give due prominence to graduate courses of instruction offered by the University. 2. To insure systematic and efficient administration of this higher work. 3. To provide separate instruction for graduate and upper division students.

Duties

It is the business of the Graduate Council: 1. To fix conditions of admission to the Graduate Department. 2. To provide courses of graduate instruction; and to pass judgment upon the graduate courses offered by the respective departments, no one of which courses shall become operative without the approval of the Council. 3. To pass upon the credentials of all candidates for graduate courses. 4. To

establish and to maintain the requirements for all graduate degrees. 5. To formulate regulations for the effective organization and administration of the Graduate Department.

Admission to the Graduate Department

Admission to the Graduate Department of the College of Liberal Arts is granted to graduates of this College and to graduates of other colleges and scientific schools of recognized standing who present satisfactory evidence of character and qualification. Other persons of suitable age and satisfactory attainment may be admitted to the graduate courses upon approval by the Council. (Admission to graduate courses of the college does not necessarily imply admission to candidacy for graduate degree.)

THE DEGREE OF MASTER OF ARTS

Each candidate for the degree of Master of Arts (A.M.) must be regularly enrolled in the College of Liberal Arts, and must pursue the course of graduate study in residence for at least one year. Registration must not be later than the first Tuesday in October preceding the date of final examination. The candidate must appear before the Graduate Council with a formal statement of credentials which shall set forth the work already completed by him. (This requirement is waived in the case of graduates of this University.) The candidate shall indicate the course of study which he wishes to pursue, which course must consist of a principal or "major subject," closely related to the major study of his undergraduate course, and one or two subordinate or "minor subject," requiring not more than one-half of the time given to the major subject.

The work of the candidate must show marked excellence. No candidate may select his course of study without the approval of the Council. A thesis embodying the results of investigation on an approved subject in the Major Department must be submitted and be approved by the Council before the candidate may be recommended for a degree. The

thesis must conform with the printed regulations furnished by the University. The subject for the thesis must be submitted to the Council for approval not later than the first of December, and the completed thesis must be presented not later than the last Saturday in April of the year in which the degree is conferred. Upon the satisfactory completion of the aforesaid graduate course and acceptance of the thesis submitted the candidate shall be recommended for the degree of Master of Arts.

THE DEGREE OF MASTER OF ARTS AND THE DEGREE OF DOCTOR OF MEDICINE

Upon students who complete the course in the Medical Department of the University after receiving the Bachelor's degree from the College of Liberal Arts or other institutions approved by the College, the degree of Master of Arts will be conferred on the following conditions:

1. A candidate for the degree of Master of Arts who is at the same time pursuing the regular course in the Medical Department must matriculate in the College of Liberal Arts at least two years before receiving the Master's degree.

2. The candidate's research work must be planned in conjunction with the Committee on Graduate Study in the College of Liberal Arts.

Reports of progress in the research work shall be made at such times as may seem advisable to the Committee. The results of such work must be embodied in a thesis approved by the Committee on Graduate Study.

3. The regulations of the College of Liberal Arts shall prevail concerning fees and thesis.

THE DEGREE OF CIVIL ENGINEER AND THE DEGREE OF ELECTRICAL ENGINEER

The professional degrees of Civil Engineer and Electrical Engineer are conferred on graduates of this University in the Civil Engineering and Electrical Engineering courses

respectively, on the satisfactory completion, in residence, of one year of graduate study, or on having been engaged in the active practice of their profession for at least three years, two of which shall have involved responsibility, and the presentation of an approved thesis showing ability to do independent work.

FEES AND EXPENSES

Undergraduate Study

Tuition per semester, payable in advance	\$40.00
Tuition per year (two semesters) if paid in advance	80.00
Tuition for six to ten hours per semester	30.00
Tuition for five hours or less per semester	20.00
Athletic fee—required of all students, per semester	2.00
Gymnasium and physical education without other studies, per semester.....	8.00
Registration fee included in the above, but not subject to rebate.....	5.00
Diploma fee	5.00
Laboratory fees, per semester:	
Each course in Chemistry requiring laboratory work	8.00
Assaying	30.00 to 50.00
Physics:	
1 and 2 each.....	4.00
3 Mechanical	4.00
4 Shop	4.00 to 6.00
Electrical Measurements	6.00
Electrical Engineering:	
2 and 7 Dynamo Laboratory, each....	8.00
Each course in Biology requiring laboratory work	4.00
Surveying, field work, per semester.....	2.50

An account is kept of breakage and an additional charge made therefor.

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the year.

The sons and daughters of ministers in the regular work of any evangelical denomination may have their tuition fee reduced to one-half the regular rate.

A discount of ten per cent. of the tuition will be allowed when two or more students enter from the same family.

Tuitions paid in advance will be refunded proportionately should the student be forced to leave school on account of sickness. No refund will be made for an absence of less than half a semester.

Graduate Study

Tuition per semester, payable in advance.....	\$35.00
Registration fee, included in above.....	10.00
Diploma fee	10.00

Students who have received the Bachelor's degree from the University of Southern California will pay only ten dollars per semester and the diploma fee.

GENERAL INFORMATION

The College of Liberal Arts of the University of Southern California is situated in Los Angeles, about three and one-half miles southwest from the business section of the city. The College buildings are accessible by three lines of street cars, the Main Street, University and Pacific Electric lines. This is one of the most beautiful and rapidly growing residence portions of Los Angeles. The campus, comprising ten acres, has been improved by cement sidewalks and street grading on all sides, and a lawn in front of the main building.

Endowment and Improvements

The endowment of the College of Liberal Arts, started a few years ago by the munificent gift of sixty-five thousand dollars by the late Rev. Asabel M. Hough and wife, Anna G.

Hough, has steadily grown until it has reached the sum of four hundred and twenty-five thousand dollars.

Substantial improvements have been made in all of the departments of the University. Many new books have been purchased and placed on the shelves of our Libraries.

The science halls of the College of Liberal Arts are well equipped with apparatus strictly up-to-date.

The gymnasium, the three tennis courts, the basketball court, the inclosed athletic field, with its quarter-mile cinder path, and the bleachers with thirty-five hundred sittings, furnish ample facilities for physical training and outdoor sports.

Women's Dormitory

Under the management of the Ladies' Auxiliary a dormitory is provided for young ladies at 3427 McClintock Avenue where wholesome board and cozy rooms may be obtained at reasonable rates.

Men's Dormitory and Boarding Club

The Hodge Hall Boarding Club furnishes board for young men at very reasonable rates. Information concerning membership in this club can be obtained upon application.

Board and furnished rooms can be secured in private families at from three to seven dollars per week. Furnished rooms, accommodating two students, cost from four to twelve dollars per month.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not of necessity so great as to be burdensome to persons in moderate circumstances.

The Young Men's Christian Association conducts a free rental bureau for the benefit of all students and has all available rooms in the vicinity of the University campus listed and on file. The Young Men's Christian Association and the Young Women's Christian Association also conduct an employment bureau for the purpose of aiding needy and worthy students who are desirous of earning a part of their expenses while in school. The general secretary of either association

will be glad to answer any requests for information addressed to them.

Religious Privileges

The moral atmosphere surrounding the student is exceptionally good. The Young Men's Christian Association and the Young Women's Christian Association are active and effective in social and religious life.

In addition to the chapel services, courses of special addresses are delivered from time to time. These privileges constitute a good Christian atmosphere in which to lay the foundation of character. Students are expected to attend some church each Sabbath, and are advised to join some Sunday class for the study of the Bible.

The University Methodist Episcopal Church is located near the campus, and is one of the most prosperous churches in the city. The Baptists and Presbyterians also have churches in the near vicinity. These advantages, together with fine public school privileges, make the University section of the city a very desirable place of residence for families seeking educational opportunities.

Ladies' Auxiliary

An organization under this name is composed of more than fifty of the ladies of the city especially interested in the University. In addition to the supervision of the women's dormitory, a cafeteria under their efficient management provides hot lunch or dinner at cost for students and faculties.

Literary Societies

The Aristotelian Literary Society for men is the oldest of the societies connected with the College. It has a large and well furnished hall in which to hold its meetings.

The Comitia, also for men, is in a flourishing condition.

The Athena and Clionian Societies are for young women. They have finely furnished halls, and are doing excellent work.

The Library

The Library is housed in the main building of the University. The Reference room contains the general reference books, and a carefully selected list of current periodicals. The stack room contains the circulating books. There are also two large study rooms, one on the main floor in the North Annex, the other on the second floor.

All officers, students and graduates of the University have free access to the Library and may draw books for home use. The shelves are open to the members of the faculty and students engaged in advance work upon recommendation of their major professor.

The Library contains over ten thousand volumes, exclusive of unbound pamphlets; also, what is known as the Dean Cochran Memorial Library of over 2000 volumes placed in the University by his son, George I. Cochran.

Each year books are added to meet the demands of the various departments.

The Library is open each day from 8 a. m. to 4:30 p. m.; Saturdays, 8:30 a. m. to 12 m.

All students have access to and make continual use of the Los Angeles Public Library of over 150,000 volumes.

The Museum

An extensive collection of specimens in mineralogy and geology has been accumulated during the past years, by donations and purchase. Professor Dickinson, the first curator, opened the museum and classified it, making many donations from his own excellent private collection.

A few years ago the trustees purchased from Dr. Stephen Bowers a large collection of geological, mineralogical and archaeological subjects.

The late Rev. C. R. Pattee, D.D., donated about five hundred species of West Coast shells, a valuable geological, paleontological, mineralogical and conchological collection.

The late Mrs. Mary Wright has bequeathed to the University a very valuable collection of geological specimens.

Physical and Electrical Engineering Laboratories

The departments of Physics and Electrical Engineering occupy nine rooms on the first floors of the main building and Science Hall. These have been planned and equipped exclusively for the departments and are suited for the purpose for which they are used.

The Laboratories include: (1) General Physical Laboratory, (2) Electrical Measurements Laboratory, (3) Photometer Room, (4) Physical Optics, (5) Dynamo and Motor Room, (6) Repair Shop, (7) Office and Private Laboratory, (8) Stock Room, (9) Preparatory Physics Laboratory, (10) Lecture Room. The equipment is furnished by the best American and European makers. It is of recent purchase, modern and best quality. The equipment in Mechanics includes a number of excellent precision pieces by Gaertner; in Heat, apparatus by Pye of Cambridge, Eng.; in Light, spectrometers, prisms, gratings, etc., by Gaertner and Wilson. In Electricity the equipment is especially complete and of high order. Special mention may be made of (1) Standard Resistances, Postoffice Boxes, Type H Galvanometers (four), Portable Galvanometers, Thomson Dynamometer, Standard Cell and Shunts made by Leeds and Northrup; (2) Potentiometer by Pye; (3) Standard of Self-induction, Sechometer, Kempe Discharged Key and Permeameter by Nalder & Co., England; (4) Variable Condenser, Tangent Galvanometers and Keys by Queen & Co.; (5) Indicating Meters, for both Alternating and Direct Currents, in which the equipment is unusually complete, including a large number of Ammeters, Voltmeters and Wattmeters of the well known Weston make; also, Whitney hot-wire, Wagner induction, Hoyt torsion-head, Aryton & Perry plunger type and others.

The dynamo room is equipped with a Fairbanks-Morse gas engine for driving the electric generators. These consist of a 7.5 Kw. General Electric Co. revolving field Alternator, a 7.5 Kw. Three Rivers compound wound D. C. 125-volt generator and a 7.5 Kw. Westinghouse double current generator. The G. E. alternator is provided with a special winding for various phase and voltage connections, and with three extra rotors so that it may also be run as an induction motor with squirrel cage rotor, with external resistance rotor, or with

internal resistance rotor. Controllers, rheostats and compensator are provided. The Westinghouse machine may be run as a 1, 2 or 3-phase alternator or as a 125-volt D. C. generator or as a Rotary Converter.

In addition to these machines there are also: Crocker-Wheeler 1.5 Kw. D. C. generator, Edison 1.5 Kw. D. C. generator, Westinghouse 800-watt D. C. generator, Westinghouse 1 and 5-horsepower induction motors, General Electric 1 and 3-horsepower induction motors, the latter with the phases wound in different colors and all the coils led to a terminal board. There are, also, transformers, water rheostats, arc lamps, switchboards, etc., in conjunction with the machines. Circuits run to the electrical measurements room and lecture room, and one of the motor-generator sets is arranged for operation in the lecture room for demonstration purposes. A stereopticon with slides showing modern electric installations is provided.

The Library contains a large number of reference books on many special subjects in Electrical Engineering and General Physics.

The Chemistry Building

The department of Chemistry occupies the building in the southern portion of the campus. The laboratory for general chemistry will accommodate one hundred ten students; that for quantitative chemistry forty students; that for organic chemistry twenty-five students. The laboratories are thoroughly equipped with modern laboratory tables, water, gas, apparatus and chemicals; they contain a large number of hoods and all of the conveniences of a modern laboratory. The balance room is a separate room, well lighted and equipped with twelve fine analytical balances. The store-room is accessible from the different working laboratories and is supplied with a large quantity of apparatus and chemicals of the best make. A special research laboratory accommodating twenty-five students is thoroughly equipped with storage batteries for electro-chemistry, also with combustion apparatus and special apparatus for determining molecular weight. Another laboratory is equipped for investigations

on oil and gas. The equipment consists of stills, hydrometers, viscometers, Atwater's bomb calorimeters for heat determination, Junker's patent gas calorimeters, Hempel's gas apparatus, Elliot's sulphur apparatus and a thermo-electric pyrometer. There are also four additional research laboratories.

Assay and Metallurgical Laboratory

This laboratory occupies a large room in the new Chemistry Building. The equipment consists of rock crushers, ore grinders of several kinds, amalgamating fans, all driven by electricity. The furnaces are of the latest type, using gas for fuel. The equipment includes apparatus for concentration and amalgamation tests, as well as a complete cyanide and chlorination plant. Special facilities are afforded for the electrolytic reduction processes. The laboratory is modern in every detail.

The Biological Laboratories

The entire second floor of the new north wing of the main building is devoted to the biological laboratories and lecture room. The laboratories are so planned that each student has abundant light, 110 feet of desks face immediately to the north. Each student is supplied with two drawers and microscope locker, each with Craig combination locks.

The Zoological Laboratory, 34x35 feet, contains now forty-seven single desks and a large demonstration table 4x11 feet with drawers and cupboards on each side for supplies. The laboratory is provided with blackboard, glass cases for books, reagents and specimens; a sink, aquarium and drip for keeping live specimens. Each student is furnished a compound microscope, BA 2 or BB 2, dissecting instruments and necessary materials for dissection and study.

A Bausch & Lomb physician's type of microscope has been presented to the department by Mrs. Scherer in memory of her husband, the late Dr. Luther D. Scherer. The instrument is provided with a complete set of lenses and accessories as follows: Objectives, 1-12 inch oil immersion, $\frac{1}{8}$ inch with

compensating collar, and $\frac{3}{4}$ inch. Two eye pieces, substage condenser, stage micrometer, eye-piece micrometer and other accessories, all in good condition.

The Botanical Laboratory is thirty by forty-five feet. It contains forty-four single desks with drawers, locker and Craig combination locks for each; a large demonstration table; cases for twenty thousand herbarium specimens, books and supplies; blackboards, sinks, aquarium and drip. A compound microscope, dissecting instruments and materials are furnished each student.

The Laboratory for Bacteriology and Physiology is 29x46 feet, facing the north. It is supplied with autoclave, Arnold and hot air sterilizers, incubators, glassware and all other necessary equipment for work in bacteriology. There are thirty-one single desks in this laboratory, a large demonstration table, two hoods and cooling chamber, sink, tank, tables, cupboards and case for reagents and supplies. All the necessary materials, apparatus and instruments including BB8 Bausch and Lomb microscopes are furnished the student. For Physiology the laboratory is supplied with all the necessary reagents and apparatus such as microscope, haemocytometer, dissecting instruments, etc., for successful laboratory work. A complete set of the Harvard Physiological apparatus has been added. For Histology and Embryology the student is supplied with BB8 microscope and has the use of the Minot automatic rotary microtome, Bausch and Lomb's automatic laboratory microtome, and all reagents necessary to carry on successful work.

The research laboratory, 15x17 feet, adjoins the office of the department, which is also 15x17 feet. The equipment of these rooms is such as adapts them to advanced work along special lines. The best microscopes of German and American make are available, including Bausch and Lomb, CC8, Zeiss IIa, with achromatic and a set of apo-chromatic objectives with compensating eye pieces. Other microscopes of the Leitz and Spencer types, also imbedding baths, centrifuge, camera, numerous microscope accessories and instruments are provided.

The lecture room is 32x36 feet with raised seats. It has a seating capacity of about two hundred and is provided with skylight and fitted with screens for darkening to adapt it to the use of the electric projection apparatus and stereopticon which form part of the equipment. The lecture desk which is fitted with drawers and cupboards can be adjusted instantly for gas or water for demonstration purposes. This room, as well as all others, is well supplied with electric lights.

The wide halls have been provided with glass cases in which are placed a large collection of birds, mollusks and alcoholic specimens for demonstration and study. The collection of mollusks is very complete, representing over eighteen thousand specimens.

Athletics and Physical Culture

The Faculty of the College of Liberal Arts, recognizing that physical culture is both hygienic and educative, desires to encourage every reasonable effort in the direction of physical development consistent with strong manhood and womanhood. On its hygienic side it should aid the body in all its functions, develop a symmetrical form, correct deformity as far as possible, and afford recreation. In its educative function it should afford the discipline necessary for self-control, both mental and moral.

There are two active tennis clubs with three well kept courts.

Gymnasium and Athletic Grounds

Athletic sports are encouraged for their value in developing the body, in furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise.

The gymnasium has been fitted with appliances for the proper development of the body. The necessary apparatus of the newest and most approved designs has been provided. The director has made preparations for the training in the gymnasium of both the young men and young women, who will have separate lockers and baths and use the building at

different periods of the day. The students have all the advantages of the gymnasium, with baths, lockers and dressing room accommodations.

A complete equipment is provided for each form of exercise. Galleries will afford audience room for special gymnastic exercises when such are open to the public.

Each student, on entering the department, undergoes a thorough physical examination, in order that his physical condition may be known to the director, and suitable exercise prescribed. Various strength tests and measurements are given; the heart, lungs and eyes are examined, and the utmost caution used in the advice given regarding individual exercise. One examination during each semester is required, the latter demonstrating any improvement or change in the student's physical condition. Anthropometric cards and charts are plated for students when desired.

Athletic Contests

All athletic and team contests are under close supervision of the director and no student is permitted to compete in games or contests whose physical examination shows that he or she is unfit.

Any person who desires to enter athletic contests must attain a certain standard of scholarship before being permitted to participate.

Gymnastics for Women

Before entering upon this training every young woman is given a thorough physical examination by Dr. Elsa H. Horstmann, in order that only such exercises may be given as are suited to the student's individual needs. If owing to any physical inability to take the work with the regular classes it seems necessary to take special corrective work, private instruction may be arranged for.

The regular course includes gymnastics, athletics and physical culture. A combination of the Swedish and German system of gymnastics is used.

The gymnasium is well equipped with apparatus. All work must be done under the supervision of the director.

The Athletic grounds are adjacent to the gymnasium and participation in out-door sports is expected of all young women taking physical training. They may elect tennis, volley-ball, basket ball, or walking.

Students are required to provide themselves with a special suit for gymnasium exercises. The Director must be consulted in this matter, in order that there may be uniformity of costume.

SCHOLARSHIPS

The following scholarships have been founded in the College of Liberal Arts. Others contemplate the establishment of prizes and scholarships, and it is earnestly hoped that soon a goodly number can be offered. Friends of the College can greatly add to its attractiveness in this way.

The Hugh Johnston Scholarship

This scholarship was founded by Mrs. Anna H. Johnston, of Pasadena, in memory of her deceased husband, and is for the benefit of needy students. Mrs. Johnston will name the incumbent when she desires. Otherwise this will be done by the authorities of the University.

The Spence Scholarship

This scholarship was founded by the Hon. E. F. Spence in his life time, and is devoted to the use of needy students in the San Diego district, upon the recommendation of the District Superintendent of that district.

The A. C. Hazzard Scholarship

A thirty-year scholarship founded by Rev. A. C. Hazzard, of Whittier, for the benefit of students preparing for Christian work.

The A. M. Peck Scholarship

Founded by A. M. Peck, of Compton.

The Poplin Scholarship

Founded by F. L. Poplin, of Los Angeles. The incumbent to be named by the founder.

The Ontario Scholarship

For the benefit of graduates of the Ontario High School.

The Zana E. Stevens Scholarship

Founded by Rev. F. G. H. Stevens, September 16th, 1907, in memory of Zana E. Stevens, nee Terpenning, of the class of 1901. This scholarship is to be filled by a member of the J. O. C. Class of the First Methodist Episcopal Church of Santa Monica, of which Mrs. Stevens was the organizer and teacher. The incumbent is to be named by the founder when he so desires, otherwise by the District Superintendent of the Los Angeles District and the authorities of the University. In case no member of this J. O. C. Class is eligible, the incumbent shall be chosen from any J. O. C. members who apply for same. In case none such apply, the incumbent shall be chosen from any female students who apply.

The A. M. Hough Scholarship

Founded by Mrs. Anna G. Hough May 7, 1908, by the payment of one thousand dollars. This scholarship is to be perpetual, and is to be used to aid some student each year in the College of Liberal Arts who is preparing to enter the ministry of the Methodist Episcopal Church. In case no such student should apply, the President of the University is authorized to use the scholarship to benefit any worthy student needing such help.

The George I. Cochran Scholarship

Founded by George I. Cochran; founder to name the student receiving the benefit.

The Abbie Mills Scholarship.

Founded by Abbie Mills by the payment of \$1000. The scholarship is to be perpetuated, the President to name the student receiving the benefit.

PRIZES

The Lottie Lane Prize

This prize, established by Mrs. Charlotte A. Thompson as a memorial to a deceased daughter, is an elaborate gold medal, to be presented each year at Commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole college course. Students who have taken more than four academic years to complete the course or those who have received credit for work done elsewhere than in this College, are not eligible for this prize. This medal was awarded in 1910 to Grace A. Willett.

The Oratorical Prize

The Phi Alpha Fraternity gives an annual prize of twenty-five dollars for the best oration delivered in the local contest by an undergraduate.

The first prize was awarded in 1910 to Benj. D. Scott.

The University offers to its representative in the Inter-collegiate Oratorical Contest, a semester scholarship in the junior or senior year, College of Liberal Arts (value \$40); and an additional semester scholarship in junior or senior year, if said representative wins first place in the Inter-collegiate Contest.

The scholarship is not transferable.

GIFTS TO THE UNIVERSITY

The Hough Fund. This is a fund of \$65,000 given by Rev. Asabel M. Hough, deceased, and his wife, Anna G. Hough, of Los Angeles. It is to be held by the University in perpetuity, and the income is to be used for current expenses of the College of Liberal Arts, or as the Board of Trustees may annually direct.

The Hazzard Professorship. Rev. A. C. Hazzard has given to the University, property value at \$30,000 for the endowment of a professorship in English Bible.

The Merryman Professorship. Mr. T. D. Merryman has given to the University property value at \$25,000 for the endowment of a professorship in Mathematics.

Hartupee Gift. This gift consists of \$22,500.

Carnegie Gift. This gift consists of \$25,000.

For further information address.

UNIVERSITY OF SOUTHERN CALIFORNIA,
Los Angeles, California.

DEPARTMENTS OF INSTRUCTION

BIOLOGY

Professor, Albert B. Ulrey (Animal Biology).

Assistant Professor, Andrew C. Life (Plant Biology).

Charles S. Bentley, M.D.
(Lecturer on Marine Conchology.)

Instructor in Zoology, Chas L. Parmenter.

Laboratory Assistants:

Percy S. Barnhart.

Earl E. Burk.

Joseph Monteleone.

Courses adapted to the needs of students who do not major in Biology but desire some knowledge of organic nature and training in scientific methods are: General Zoology or General Botany and Bionomics.

Major work: (a) Animal Biology, courses 1-6; General Biology, courses 2, 3 and 4; (b) Plant Biology, courses 1-6; General Biology, courses 2, 3 and 5.

Courses affording preparation for directors of Physical Education and Health and Development: Animal Biology, 1, 2, 5 and 6; General Biology, 1, 2 and 3; Anatomy, Physiology and Physical Diagnosis (courses given in the Medical

College); courses in Education which are adapted to the student's needs.

The courses in General Zoology, Physiology, Bacteriology, General Botany and Bionomics are offered each year. Other courses given will be determined by the available time of the instructors and the needs of the students of the department.

Two or more assistants are selected each year from the advanced students of the department who maintain a high standard of scholarship and are otherwise qualified for the work.

Animal Biology

LOWER DIVISION COURSES.

1. General Zoology. Laboratory study of representative types of invertebrate and vertebrate animals from the simplest to the most complex. A series of lectures co-ordinating the laboratory work and dealing with the general problems of Biology. The course includes a study of animal structure, functions, relationships and adaptation to environment. The student receives instruction in the use of the microscope, dissecting apparatus, and is directed in the study of animals in their native environment. Ten hours laboratory work and lectures per week throughout the year. Four hours, both semesters. 2-3:50, Monday, Tuesday, Wednesday, Thursday.

2. Physiology. Lectures, laboratory work and recitations on the activities of living organisms. Special study of the physiology of the human body. Six hours per week, one semester. Prerequisites Course 1 or Plant Biology 1. Three hours, second semester. 9:55, Monday, Wednesday, Friday. Lectures, Friday, 1-3:50 Lab.

3. Systematic Zoology. The course deals with certain groups of vertebrates with special reference to morphology and relationships. Laboratory study, field work and lectures. Six hours per week, one semester. Prerequisite Course 1. Three hours, either semester.

UPPER DIVISION COURSES.

4. Histology. The microscopic anatomy of animal tissues. Methods of preparation of tissue with practice in fixing, sectioning, staining and mounting. Laboratory work, lectures and recitations, six hours per week, one semester. prerequisite Course 1. Three hours, either semester.

5. Embryology. The general course of development of one of the higher vertebrates. Special study of the early stages of development of the organs. Embryological methods and practice in serial sectioning. The lectures deal with the general problems of embryology. Six hours per week, one semester. Prerequisites Courses 1 and 4. Three hours, either semester.

6. Anatomy of Vertebrates. Dissection of types of the higher vertebrates; quizzes, recitations and lectures. The course is primarily for pre-medical students. Six hours per week are required in the laboratory, one semester, Prerequisite Course 1. Three hours, either semester.

7. Advanced Physiology. This course is given in the College of Medicine.

8. Special Zoology. Investigation of some topic of limited scope. This course is planned to meet the needs of each student prepared to pursue it. Six hours per week, throughout the year. Prerequisite Courses, 1, 2, 3, 4 and 5, or their equivalent. Three hours, both semesters.

Plant Biology

LOWER DIVISION COURSES.

1. General Botany. The course comprises a study of typical plants representing the vegetable kingdom. The first semester as well as a part of the second is devoted to Thallophytes and Archegoniates; the remainder of the second semester to Spermatophytes. Laboratory study, field work and lectures. Ten hours per week throughout the year. Four hours, both semesters, 9:55-10:50, Monday, Tuesday, Wednesday and Thursday.

2. Field Botany and Taxonomy. A study of flowering plants (spermatophytes) in the local flora. The course deals with the relationship of plants; affinities indicated by their structure, and a brief consideration of pedigree-cultures. Six hours per week, one semester. Prerequisite General Botany. Three hours, either semester.

3. Ecology. The relation of plants to their environment and their structural adaptations. Lectures, field and laboratory work. Three hours, either semester.

4. Plant Physiology. Experimental work on the physiology of plants, lectures and supplementary reading. Eight hours per week, one semester. Prerequisite Course 1. Four hours, either semester.

UPPER DIVISION COURSES.

5. Plant Anatomy and Histology. The minute structure of the systems of tissues. Microscopical technique in preparing permanent mounts. Laboratory work and lectures. Six hours per week, one semester. Prerequisite Course 1. Three hours, either semester.

6. Morphology of Bryophytes and Pteridophytes. A critical morphological study of typical representatives of Bryophytes and Pteridophytes, their development from the germinating spore to the adult. Special attention is given to the relationships of the groups as indicated by their structure, and to the phases of alternation of generations illustrated by the types studied. Six hours per week, one semester. Prerequisite General Botany. Three hours, either semester.

7. Marine Algae. Special morphology, classification and relation to environment. Prerequisites Courses 1 and 5. Three hours, either or both semesters.

General Biology

LOWER DIVISION COURSES.

1. Hygiene and Sanitary Science. A course of lectures and laboratory demonstrations on (a) the improvement and

preservation of health, and (b) the applications of science in the home. Open to all students. Two hours, either semester.

2. Bacteriology. The course consists of a study in the laboratory and by means of lectures of the nature of the bacterial organism; its relation to disease, methods of cultivating and isolating; inoculation experiments, staining of sections, examination of water, etc. Six hours per week, one semester. Prerequisite Botany 1, or Zoology 1. Three hours, first semester. 9:55, Monday, Wednesday. Lectures Friday, 1-3:50 Laboratory.

UPPER DIVISION COURSES.

3. Bionomics. A course of lectures dealing with the general principles of Biology. The problems of inheritance, development and sex are considered from the cytological standpoint throughout the first semester. Variation, heredity, selection, regeneration and kindred topics are studied during the second semester. Two hours per week, throughout the year. Prerequisite General Zoology or General Botany. Two hours, both semesters. 8:55, Tuesday and Thursday.

4. Microscopical Technique. A course dealing with special methods of Microscopy. Laboratory work and lectures. Two hours, either semester.

5. Seminar. The advanced students and instructors of the department meet two hours per week for reports on special investigation and present-day problems of biology. One hour, both semesters.

6. Journal Club. Reports on the current literature of biology, one hour per week throughout the year.

At the Venice Marine Station

(Primarily for Graduate Students)

7. Biological Survey. A study of the marine animals and plants of the region, including their habitat, classification, distribution and life-habits.

8. Experimental Biology. The course consists of a study of some special problem of biology for which the student's training prepares him.

9. Research. A limited number of private laboratories are available for free use of investigators who are prepared to carry on such work. Investigation may be carried on throughout the year. Application for these privileges should be made to the director of the station.

CHEMISTRY

Professor, Laird J. Stabler.

Assistant Professor, Ethel W. Graves.

Laboratory Assistants:

J. George Davidson,

Lorenzo A. Hampton,

Henry N. Wade.

Courses 2, 2a, 3 and 3a are prerequisite to all other courses in Chemistry.

In all laboratory courses except Course 14 a deposit of thirteen dollars per semester for each course is required. Of this, five dollars per semester, less breakage, is returnable. In Course 14 a fee of ten dollars is charged, and, in addition, a deposit of ten to thirty dollars is required to cover cost of material consumed.

LOWER DIVISION COURSES.

1. General Inorganic. A lecture and recitation course, covering the principles of Chemistry. Open only to students who do not present entrance credits in chemistry. Smith's Chemistry for Colleges. To be taken in connection with Course 1a. Three hours, first semester. 10:50, Monday, Wednesday, Friday.

1a. General Inorganic. A laboratory course in General Chemistry, including preparation of simple inorganic com-

pounds, and experiments illustrating general laws and properties of elements and common compounds. Smith's Laboratory Manual. Six periods a week in the laboratory. Two hours, first semester. 1:05-3:50, Wednesday, Thursday.

2. Qualitative Analysis. Metals. Lectures and recitations dealing with detection and identification of metals. Prerequisite, Matriculation Chemistry. Smith's Chemistry for Colleges. To be taken in connection with 2a. Three hours, second semester. 9:55, Monday, Wednesday, Friday.

2a. Qualitative Analysis. Metals. A laboratory course in Qualitative Analysis, covering detection and identification of metals and a completion of unknowns containing metals. Morgan's Qualitative Analysis. Six hours a week in the laboratory. Two hours, second semester. 1:05-3:50, Monday, Tuesday.

3. Qualitative Analysis. Nonmetals. A continuation of Course 2. A study of Qualitative Analysis, including nonmetals, interfering substances and insolubles. To be taken in connection with 3a. Three hours, either semester. 9:55, Monday, Wednesday, Friday.

3a. Qualitative Analysis. Nonmetals. A laboratory course covering identification of nonmetals, detection and removal of interfering substances, and a complete qualitative analysis of several minerals. Morgan's Qualitative Analysis. Six hours a week in the laboratory. Two hours, either semester. 1:05-3:50, Monday, Tuesday.

4. Quantitative Analysis. Laboratory practice in gravimetric and volumetric determinations, with occasional lectures and recitations. Talbot's Quantitative Chemical Analysis. Nine hours per week in the laboratory. Three hours, both semesters. Hours to be arranged.

5. Advanced Qualitative Analysis. A laboratory course involving difficult qualitative separations, and detection of some of the rare elements. Weekly lectures and discussions. Prescott and Johnson's Qualitative Analysis is recommended

for reference. Three hours, either semester. Hours to be arranged.

UPPER DIVISION AND GRADUATE COURSES.

6. Inorganic Preparations. A laboratory course including preparation of inorganic compounds, with tests for purity and strength. Prerequisite, Course 4. Two hours, either semester. Hours to be arranged.

7. Organic Chemistry. Lectures and recitations on the chemistry of the carbon compounds. Remsen's Organic Chemistry. Two hours, both semesters. 9:55, Tuesday, Thursday.

7a. Organic Preparations. A laboratory course in the preparation of typical carbon compounds. Open to students who have completed Courses 2, 2a, 3a, 5 and 7. Two hours, both semesters. Hours to be arranged.

8. Mineral Analysis. Gravimetric and volumetric analysis of representative minerals, ores and alloys. Prerequisite, Course 4. Four or five hours, either semester. Hours to be arranged.

9. Physical Chemical Measurements. A laboratory course in physical-chemical methods. Molecular and atomic weight determinations by vapor density, boiling-point and freezing-point methods. Determination of conductivity of electrolytes, reaction velocity, isothermal and chemical equilibrium. Prerequisite Course 4, Physics and Calculus. Two hours, either semester. Hours to be arranged.

10. Quantitative Analysis of Agricultural Products. Systematic analysis of fertilizers, dairy products, etc. Prerequisite Course 4. Four or five hours, either semester. Hours to be arranged.

11. Medical Chemistry. A laboratory course, including urine analysis, toxicology and food analysis. Designed especially for students looking forward to medicine or pharmacy. Open to students who have completed or are taking Courses 4 and 7. Three hours, either semester. Hours to be arranged.

12. Food Analysis. A laboratory course in Chemistry of meat and meat products, edibles and fats, dairy products, cereal products, saccharine products, canned vegetables, cocoa, tea, coffee, spices, vinegar, flavoring extracts, fruits and fruit products, fermented and distilled liquors, baking powders, food preservatives and coloring matter. Open to students who have completed Courses 4 and 7. Two hours, either semester. Hours to be arranged.

13. Industrial Chemistry. A lecture course covering the chemistry involved in the manufacture of oils, soap, sugar, explosives and other commercial products. Lectures will be given by chemists from various manufacturing establishments. Prerequisite, Courses 2, 3 and 7. Two hours, second semester. Hours to be arranged.

14. Assaying. This course comprises silver and gold extraction by scorification and crucible methods; fire assay of copper, lead and tin, extraction of gold from ores by the amalgamation, the chlorination, the cyanide and the electrolytic process. Two hours, either semester. Hours to be arranged.

15. Seminar. Papers and discussion on assigned topics, with lectures on subjects of general chemical interest. Open to advanced students. One hour, both semesters. Hour to be arranged.

Major Work: Sixteen semester hours in addition to courses 2, 2a, 3, 3a.

DRAWING

Professor, A. W. Nye.

Professor, C. W. Lawrence.

Assistant Professor, T. A. Teeter.

Assistant Professor, J. C. Gaylord.

Instructor, A. G. Tottenham.

Elementary

1. Freehand Drawing. Drawing from casts and natural objects in charcoal and pencil. Light, shade and perspective. Out-door sketching. Six hours, first semester.

2. **Mechanical Drawing.** Solving of geometrical problems, construction of mathematical curves, lettering. Six hours, first semester.

3. **Advanced Freehand Drawing.** Head and Costumed Life drawing, Poster drawing. Six hours, second semester.

4. **Advanced Mechanical.** Projection, development and intersection. Lettering. Six hours, second semester.

Architectural

5. **Elements of Practical Perspective.** Six hours, first semester.

6. **Shades, Shadows and Perspective.** Treated from an artistic standpoint. Color and wash drawing. Six hours, second semester.

Engineering

7. **Machine Drawing.** Drawing details, assemblies of machine parts from sketches made in the laboratories or from blue prints. Designing simple machines. Lectures and drafting. Two hours, first semester, 9:55 and 10:50, Tuesday and Thursday. An examination in orthographic projection will be given to all students entering this course. (Nye.)

8. **Technic of Drawing.** In this course are given the technical details of drafting in connection with steel construction, topographical mapping, electrical diagrams, curved shading etc. Two hours, second semester. 9:55 and 10:50, Tuesday, Thursday. (Nye.)

9. **Descriptive Geometry and Stereotomy.** Advanced study of the representation of lines, surfaces and solids, shades and shadows, from a mathematical standpoint, linear perspective and stereotomy. Four hours, throughout the year.

10. **Machine Design.** Advanced course in mechanical and electrical design, detailing, working drawings of complicated machine details, study of standard commercial machine parts, shop practice, strength of parts, use of tables, formulae,

slide rule, gearing, estimating, specifications, structural iron and steel. Five hours, second semester.

11. **Graphical Statics.** The graphical determination of stresses in engineering structures. See Civil Engineering 15. Four hours, first semester.

12. **Structural Design.** Complete designs for steel bridges, roofs and other structures. See Civil Engineering 18. Seven hours, throughout the year.

13. **Electrical Design.** Types of electrical machinery, calculations and details. See Electrical Engineering 8. Five hours, first semester.

ECONOMICS AND SOCIOLOGY

Professor, Rockwell D. Hunt

Assistant Professor, —————

ECONOMICS

LOWER DIVISION COURSES.

1. **Principles of Economics.** A comprehensive introduction to economic study, based upon Ely's Outlines and supplemented by lectures, assigned readings, and frequent student exercises. The elements of economic life, the principles and problems of production, distribution and consumption, with particular reference to their application to American social conditions. Among special topics considered are exchange, money, banking, revenue, taxation, international trade, the relation between capital and labor. Three hours, both semesters. 9:55 Monday, Wednesday, Friday.

Note.—Economics 1 is recommended to students taking the six hours requirement (History or Economics) in this department. It is in general prerequisite to all other courses in Economics.

2. Public Finance. A study of budgetary science, the principles and practice of taxation, public expenditures, and financial administration. Much attention is given to federal, state, and local taxation in the United States. Three hours, second semester. 8:55 Monday, Wednesday, Friday.

3. Money and Banking. Origin and evolution of money, with special attention to the problems of metallic and paper money; history and theory of banking, with examination of leading systems and special problems. Three hours, first semester. 8:55 Monday, Wednesday, Friday.

4. Economic Geography. A survey of the history and present status of industry and commerce in the principal countries; natural advantages in the world market, and national policies in development of resources, with special attention to the United States. Two hours, first semester. 8:55, Tuesday, Thursday.

5. Transportation and Communication. The theory and history of transportation; development of the railroad, its organization, management and consolidations. Ocean and inland waterways. Problems of rebates, public regulation, etc. Postal service and express companies. Johnson's American Railway Transportation and his Ocean and Inland Water Transportation are used as guides. Two hours, second semester. 8:55, Tuesday, Thursday.

UPPER DIVISION AND GRADUATE COURSES.

6. Labor Problems. The important labor problems of the day, with special reference to American conditions. Growth of labor organizations, strikes and lockouts, industrial arbitration, profit-sharing, woman and child labor, immigration, etc. Three hours, second semester. 2:00, Monday, Wednesday, Friday.

7. History of Economic Thought. Development of economic thought from classical antiquity, with discussion of the different schools of economists. Extensive readings from numerous writers. Two hours, first semester. 9:55, Tuesday, Thursday.

8. Recent Economic Thought. A comparative study of theories of leading economists of the present day, with special reference to the problems of the distribution of wealth. Two hours, second semester. 9:55, Tuesday, Thursday.

9. Municipal Problems. The rise and growth of the modern city. Economic, administrative and social problems presented. Regular work of the class is richly supplemented by an extensive series of special lectures by leading practical experts. Three hours, first semester. 2:00, Monday, Wednesday, Friday.

Special Lectures in Municipal Problems

1910-1911

Rev. Matt S. Hughes, LL.D.—“The Modern City.”

J. M. Guinn—“From Spanish Pueblo to American City.

John R. Haynes, M.D.—“History of Los Angeles Charter.”

Mrs. Willoughby Rodman—“Activities in Behalf of Our Children.”

Miss Cora Tatham—“Work of the Young Women’s Christian Association.

Superintendent J. H. Francis—“Work and Ideals of the School Department.”

William M. Bowen, Esq.—“The Future of Agricultural Park.”

Joseph Scott, Esq.—“The Los Angeles Chamber of Commerce.

George I. Cochran, A.M.—“Civil Service and Efficiency.”

Walter Mallard—“Problems in Assessment and Taxation.”

J. M. Elliott—“The Banks and the Community.”

A. P. Fleming—“The Los Angeles Free Harbor.”

William Mulholland—“Owen’s River and Our Future Water Supply.”

Lewis R. Works, Esq.—“Proposed Amendments to the Los Angeles Charter.”

Dr. Dana Bartlett—“Organized Philanthropy in Los Angeles.”

Dr. Dana Bartlett—“Los Angeles, 1915.”

William H. Day, D.D.—“Religious Activities in Los Angeles.”

10.—Fiscal and Industrial History of America. A comprehensive survey of American economic development and of national legislation in the fields of currency, finance, and the tariff, studied in relation to the evolution of commerce and industry. In addition to the use of texts and extended readings, students will be directed to a limited number of documentary sources. Three hours, second semester. 10:50, Monday, Wednesday, Friday.

Seminar in Economics. The Seminar, which was first organized in 1910, is designed to meet the needs of the most advanced students of the department. For the present its membership will include, in addition to the Director and instructors, the graduate students and senior undergraduates majoring in Economics. During 1910-11 the two main lines of work followed were a first-hand study of the labor situation in Los Angeles, culminating in carefully prepared reports, and a critical examination of the writings of Richard T. Ely, touching certain selected topics, as the theory of value, taxation, socialism. In addition to the leading reports, attention is given to the reviewing of recent books and periodical literature and to topics of contemporaneous interest. Two hours weekly, throughout the year. 2:55, Thursday.

SOCIOLOGY

LOWER DIVISION COURSES.

1. Introduction to Sociology. Elements of social theory. The structure, development and activities of human society. A comprehensive study of the social process and social ends, with frequent application to concrete conditions. Three hours, first semester. 10:50, Monday, Wednesday, Friday.

Note.—Sociology 1 is prerequisite to other sociology courses, except by special permission. Major work in Economics and Sociology, thirty semester hours.

2. Social Problems. Studies in practical sociology, based on Carroll D. Wright's text, with lectures and reports. Problems of population, the family, the modern city, temper-

ance, crime, poverty, etc. Each student investigates some concrete local question and presents results. Two hours, first semester. 10:50, Tuesday, Thursday.

3. Charities and Corrections. Studies in social pathology. Poverty and philanthropy, the dependent classes, public and private administration of charities. The class visits charitable and reformatory institutions in Los Angeles and vicinity to study conditions and methods of social betterment. Two hours, second semester. 10:50, Tuesday, Thursday.

UPPER DIVISION AND GRADUATE COURSES.

4. Principles of Sociology. A fundamental course, presenting an analytical study of social life and the forces of its orderly development, intended to lay substantial foundations for more advanced work. The leading social institutions are studied, and students are required to use extensive illustrative materials based upon the sources. Good knowledge of history and some acquaintance with biology and psychology are desirable. Three hours, first semester. 1:55, Monday, Wednesday, Friday.

5. Social Theories. A comparative study of the writings of leading sociologists of the present day. Extensive library work and frequent student reports are among the requirements. Open only to advanced students. Three hours, second semester. 1:55, Monday, Wednesday, Friday.

EDUCATION

Professor, Thomas B. Stowell.

Professor, James H. Hoose.

Assistant Professor, Elizabeth Yoder.

C. Everett Beach, M.D.

Elsa H. Horstmann, M.D.

1 and 2. Foundational Psychology (see Philosophy). Six hours, two semesters.

3. Principles of Education (including General Method). A study of Psychological and Educational Principles which

underlie the work of teaching. It considers primarily the psychology of the acts of teaching; secondly, the nature of the subject-matter to be learned; thirdly, how the mind of the teacher adjusts the mind of the learner to the task set, and thereby constructs the art of teaching.

Among the topics considered are the following: Functional psychology; the problems of psycho-physics; the interdependence of the various forms of mental activity as applied to education; nervous plasticity; habit, neural and psychic; types of mind; personality and environment; attention and interest.

A limited number of psychological experiments illustrative of the matter under consideration is followed by discussions of their respective educative values. Lectures, discussions, collateral readings, theses. Text Book—Horne's "Psychological Principles of Education." Courses 1 and 2 a prerequisite. Open to upper division and to graduate students. Three hours, first semester. 8:00, Monday, Wednesday, Friday.

4. Principles of Education (3 continued). Text Book—DeGarmo's *Principles of Secondary Education*. Three hours, second semester.

5. History of Education: Ancient and Medieval. Beginning with the earliest periods and extending through the period of the Reformation. A study of the development of educational ideals and systems with special reference to the agencies that have been operative in their evolution; the physical and the social conditions which change ideals. Lectures, collateral readings, theses. Monroe's "Text-Book in the History of Education." Open to upper division and to graduate students. Three hours, first semester. 9:55, Monday, Wednesday, Friday.

6. History of Education: Modern. From the Reformation to the present, with a critical study of educational classics, especially the contributions of Comenius, Locke, Rousseau, Basedow, Pestalozzi, Herbart, Froebel, Spencer and contemporary educators (5 continued). Three hours, second semester. 9:55, Monday, Wednesday, Friday.

7. Aesthetics (See Philosophy 8.). This course considers the psychology of Aesthetics; the principles controlling the expression of beauty and their application to the Fine Arts, including a brief history of the Arts with special reference to their importance and effectiveness as educating agencies. Lectures, readings, observations, reports. Text Book—Bascom's "Aesthetics." Two hours, first semester. 8:55, Tuesday, Thursday.

8. School Organization, Administration, Supervision and Management. A study of the problems of school supervision. It considers the problems of organization, and administration of public schools. Among the topics treated are the following: Federal and State control of education; county, town, city and rural systems; school buildings, site, architecture, sanitation, furniture, ventilation, heating, lighting; seating of pupils; playgrounds; the school, a social center; courses of study; examinations; grading and promotion; school discipline; public and private schools; sectarian education; the duties and the inter-relations of boards of education, superintendents, principals, teachers; the distinctive problems of each; a comparative study of our State systems and of National systems. Observations in the schools of Los Angeles. Lectures, discussions, reading, observations, reports. Text Book—Arnold's "School and Class Management." Open to upper division and to graduate students. Two hours, second semester. 8:55, Tuesday, Thursday.

9. Education of Defectives and Feeble-Minded. A historical and critical survey of the methods employed in the education of the blind; of the deaf and dumb; of the feeble-minded; of abnormal and backward children; of the ethically defective; of epileptics; care of neglected and dependent children; with observation in the various institutions of Los Angeles which are conducted for the special care and treatment of these unfortunates. This course is articulated with Sociology 2 q.v. Observations, reports, readings, discussions. Open to upper division and to graduate students. One hour, first semester. 10:50, Tuesday.

10. Philosophy of Education. An advanced course in educational theory. It investigates the nature of the psychic activities which make education possible and desirable; the essential nature of the educating process and its limitations; the actual development of this process as seen in the various civilizations; the relations of national institutions to educational ideals; the essential difference between ancient and modern education; the Hebraic conception and Imperialism as educative forces; the school essentially a social institution; the course of study an expression of the concept, "The Individual." Lectures, discussions, critical study of educational sources. Text Book—Rosenkranz's "Philosophy of Education." Prerequisite, Courses 1, 2, 3, 4, 5, 6. For graduate students. Three hours, first semester. 8:55, Monday, Wednesday, Friday.

11. Philosophy of Education (10 continued). Text Book—Horne's "Philosophy of Education." Three hours, second semester. 8:55, Monday, Wednesday, Friday.

12. Interpretation and Expression. Lectures on methods in the interpretation of literature; the psychology of expression; oral practice of selections from masterpieces; technique of voice.

Open to graduates who are candidates for the teacher's certificate. Time to be arranged. One hour.

13. Interpretation and Expression. Continuation of 12. One hour.

Health and Development

14a. Anthropometry and Kinesiology. A laboratory course in two parts.

The first deals with the normal physical measurements of children of school age. A brief study of the muscles, bones and normal movements of the body.

The second part deals with abnormalities and defects of growth and development, as variation from standards established in part One; their effect upon the movements of the

body and their influence in modifying the activities of the child.

Special attention is given to the chest, spine and feet, with particular emphasis on postural defects and the results of these defects upon internal organs. Prerequisites, Animal Biology 1, 3; General Biology, 2. 3. Open to Seniors. Three hours.

14b. Hygiene and Sanitation (Continuation of 14a). A lecture course in personal Hygiene and School Sanitation, with practice in the application of First Aid and Bandaging. Personal Hygiene approaches from various view-points the fundamental laws of human health: the subject is presented in brief talks and is intended as a basis for instruction in this subject to be given to the various grades. It deals with Nutrition, Excretion, Rest, Exercise, Cleanliness and their relations to Disease.

Under School Sanitation, the hygiene standard of the school building, yard and environment, are discussed; individual seating according to size, adjustment of distance to sight, and hearing defect cases.

The various systems of ventilation, lighting and sewage now in use are studied with a view to utilizing each to its maximum efficiency. Open to Seniors. Three hours.

15a. Symptomatology. A practical laboratory course in Physical diagnosis with seminar. The signs and symptoms indicating defects of special organs with simple tests for their detection.

Defects of sight and hearing, abnormalities of the mouth, nose and throat. Cardiac defects, respiratory defects, abnormal conditions of the central nervous system and their causes, together with a brief study of the contagious and communicable diseases, are the main topics studied. Prerequisite 14a and b. For graduates. Three hours.

15b. Continuation of 15a. A correlation of the principles underlying the various courses with the duty and function of the teacher, the school physician, the family physician and

the home. This course deals in a general way with the factors concerned in securing and conserving human health. Heredity, pre-natal and post-natal environment and the influence of certain abnormal conditions and habits on Health, Growth and Development. For graduates. Three hours.

16. Practice in Teaching. The Preparatory School of the University, located on the University Campus, furnishes rare facilities for observation and for actual experience in handling classes and giving instruction to classes in Secondary Education. Five hours, one semester.

ENGLISH

A. Rhetoric

Professor, James Main Dixon.

Associate Professor, Odell Shepard.

Assistant Professor, Paul Spencer Wood.

Assistant Professor, Howard L. Lunt.

Lecturer in English Literature, Dr. Ezra Healy.

Lecturer in Greek Literature in English,

Festus Edward Owen.

1. English Composition. Systematic practice in composition. Texts: Woolley's "Handbook of English Composition" and Berkeley's "College Course in Composition from Models." Three hours, both semesters. (In five sections.) (Professors Shepard and Wood.)

2. Spelling and Punctuation. A course in spelling and punctuation, required of all students who fail to pass a special examination in these subjects. One hour, one semester.

No credit is given for this course, but it must be passed before credit is given for English A 1. (Professor Wood.)

3. Short Story and Advanced Composition. Advanced work in narrative and expository writing. Open to students who have obtained a high grade in English A 1. Two hours, second semester. 10:50, Tuesday, Thursday. (Professor Wood.)

4. **The Rhetoric of Oratory.** The Process of Argument and Current Fallacies. Preparation of orations and briefs for debate. Text: Shurter's "The Rhetoric of Oratory." Open to students who have taken A-3. Two hours, second semester. 1:05, Tuesday and Thursday. (Dr. Dixon.)

5. **Versification.** Text: Alden's "English Verse." One hour, second semester. (In connection with Seminar. 2:50, Wednesday. (Dr. Dixon.)

B. Philology

1. **Origin and Growth of the English Language.** English as a European tongue, with the laws that have governed its development. The laws of English phonetics. Texts: Champney's "History of English;" Dumville's "The Science of Speech." Five hours, first semester. 10:50, Monday, Tuesday, Wednesday, Thursday, Friday. (Dr. Dixon.)

2. **Beginner's Course in Early English.** Texts: Bright's "Anglo-Saxon Reader," Wyatt's "Beowulf." Five hours, first semester. 9:55. (Professor Shepard.) (Both the above courses are required for an English major.)

3. **Early English Prose.** Texts: C. Alphonso Smith's "Old English Grammar," St. John's Gospel in West-Saxon. Two hours, first semester. 9:55, Tuesday, Thursday. (Dr. Dixon.)

4. **Chaucer and the Fourteenth Century.** Texts: Greenlaw's "Selections From Chaucer," Skeat's "Piers, the Plowman." The reading is supplemented by lectures on the life, language and literature of the period. Three hours, second semester. 8:55, Monday, Wednesday, Friday. (Professor Shepard.)

5. **Northern Middle English and Modern Scottish.** Texts: W. Hand Browne's "Early Scots Poetry," Dow's "Burns," Scott's "Old Mortality." Three hours, second semester. 10:50, Monday, Wednesday, Friday. (Dr. Dixon.)

6. **The Laws of Phonetics.** Phonetic systems. International language-codes. Seminar. First semester, 1911-12.

7. The Chaucerian Poets of the Fifteenth Century. James I; Henryson, Dunbar. Seminar for second semester, 1910-11.

C. Literature

1. General Survey of English Literature. Prerequisite for all courses in English Literature. Students who have made a systematic study of the subject in high school may be excused from this course by special examination. Text: W. J. Long's "English Literature." Two hours, first semester. (Professor Wood.)

2. The Elizabethan Period, 1560-1660; exclusive of Shakespeare. Five hours, second semester. 10:50. (Professor Shepard.)

3. The Restoration and Classical Period, 1660-1760. Three hours, first semester. (Dr. E. A. Healy.)

4. The Period of Romanticism, 1760-1832. Lectures and assigned readings. Five hours, first semester. Professor Wood.)

5. The Victorian Period, 1832-1900. Three hours, first semester. 9:55, Monday, Wednesday, Friday. (Dr. Dixon.)

6. American Literature. Lectures and assigned readings. Text: Bronson's "History of American Literature." Three hours, first semester. (Professor Wood.)

7. Shakespeare. Reading of fifteen plays, supplemented by lectures on the theaters, stage customs, social conditions and dramatic ideals of Elizabethan London as they bore upon the life and works of Shakespeare. Text: The Cambridge Shakespeare. Five hours, first semester. 10:50. (Professor Shepard.)

8. Shakespeare and English History. (a) The Lancastrian Tetralogy—Richard II; 1 and 2 Henry IV; Henry V. Text: Gairdner's "Lancaster and York" in Epochs of English. Not given, 1911-12. Three hours, second semester, 1:05, Monday, Wednesday, Friday.

(b) (Alternate with above.) The Yorkist Tetralogy; the three Henry VI plays; Richard III. (Dr. Dixon.)

9. The Age of Milton and Cromwell. Its theology, politics, and social aspects. "Paradise Lost" as a Puritan epic. Milton's Verse. Texts—The Cambridge Milton. Three hours, first semester. 1:05, Monday, Wednesday, Friday. (Dr. Dixon.)

10. Browning. Text—The Cambridge Complete Works of Browning. Two hours, second semester. 9:55, Tuesday, Thursday. (Professor Shepard.)

11. Tennyson. Chiefly "In Memoriam." Text—The Globe edition. (Alternate with 12; not given, 1911-12.) Three hours, second semester. 9:55, Monday, Wednesday, Friday. (Dr. Dixon.)

12. Matthew Arnold, Poet and Critic. Three hours, second semester. (Dr. Dixon.)

13. Comparative Study of the Drama. Not given, 1911-12. (Professor Shepard.)

14. History of the Novel. A study of the development of the European novel with special reference to its production in England. Lectures, assigned readings, and reports. Not given, 1911-12. (Professor Wood.)

15. Technique of the Modern Novel. Reading and discussion of one novel by each of the following: Scott, Dickens, Thackeray, Eliot, Meredith, Hardy, Dumas, Balzac, Tolstoy, Turgeneff. Two hours, second semester. (Professor Wood.)

16. History of Greek Literature from Homer to Theocritus. Lectures and recitations based on the work of the English translators of Greek masterpieces. Texts: Jebb, "Primer of Greek Literature;" Murray, "Ancient Greek Literature;" Symonds, "Greek Poets." Translations of Homer—Pope, Bryant, Chapman, Lang, Leaf, Myers; Plumptre's Sophocles and Aeschylus; Potter's Euripides; Jowett's Plato.

No knowledge of the Greek language is required. 8:55, Tuesday, Thursday. Both semesters. (Professor Owen.)

17. **The Philosophy of Literature.** Not given, 1911-12. (Professor Shepard.)

18.—**Spenser and the Italian School of the Sixteenth Century.** Seminar study for second semester, 1911-12.

ENGLISH BIBLE

Professor John G. Hill

LOWER DIVISION COURSES.

1. **The Pentateuch and Historical Books of the Old Testament.** Hebrew origin, history, tradition, cosmogony, morals, laws, government, and religious philosophy from Abraham to Solomon will be mastered. The questions of date, author, purpose, plan, style of literary composition and ruling ideas of each book will be studied. Two hours, first semester. 1:05, Tuesday, Thursday.

2. **The Prophetic and Kingly Books of the Old Testament.** This course will survey the varied and swiftly changing periods of Hebrew and Jewish history from the close of the United Kingdom to the close of Old Testament times. The greatest stress, however, will be laid upon the study of the prophets; their unique place and power, their relation to state and Church, their distinctive messages and permanent contribution to the history of religion. Two hours, second semester. 1:05, Tuesday, Thursday.

3. **The Apostolic Age of the New Testament.** This course is a careful survey of the Apostolic Church of the first century, its origin, strange success, painful conflicts with Judaism, brutal persecutions by Paganism, its new life in the dying Empire; also a comparison of the religious ideas of Paul, Peter, James and John and their mode of inspiration. Two hours, first semester. 2:00, Tuesday, Thursday.

4. **The Gospel History and Literature of the New Testament.** A study of the life, teachings, work and significance

of Jesus Christ as portrayed in the Four Gospels and as seen against the historic background of modern scholarship. Special emphasis is laid upon the living authority of Jesus and the ruling ideas of the Sermon on the Mount in sharp contrast to Jewish and Pagan religious ideas. Two hours, second semester. 2:00, Tuesday, Thursday.

UPPER DIVISION COURSES.

5. Israel's Wisdom Literature. An advanced course in the wisdom books of Proverbs, Ecclesiastes, Job, etc., from the literary point of view. One hour, first semester. 10:50, Tuesday.

6. Israel's Poetic Literature. This course will deal with the great mass of poetic literature found in the Bible, comparing it with other ancient literature. One hour, second semester. 10:50, Tuesday.

Two University Extension Courses are offered for the convenience of Sunday school teachers and others wishing to pursue Bible study in absentia.

FRENCH

Professor Edgar von Fingerlin

LOWER DIVISION COURSES.

1. Elementary Course. Grammar, exercises in pronunciation, reading, translation and composition. Dumas's *Historie de Napoleon* or equivalent will be read in the second semester. *Le Voyage de M. Perrichon*. Five hours, both semesters. 8:55, Monday, Tuesday, Wednesday, Thursday and Friday. Course 1 is intended for students in the College who wish to begin the study of French.

2. Modern French Reading. Chateaubriand, Hugo, Balzac, Dumas. Syntax, Composition. Open to students who have credit for Course 1. Three hours, both semesters. 2:00, Monday, Wednesday and Friday.

UPPER DIVISION COURSES.

3. **Classical French.** The Drama of the Seventeenth Century. Selections from Corneille, Racine, Moliere. Idiomatic French Composition. Two hours, first semester. Open to students who have completed Course 2.

4. **History of French Literature** in the seventeenth, eighteenth and nineteenth century. A text-book such as Doumic's *Histoire de la Literature Francais* will be used. Also extracts from the seventeenth century literature. Beaumarchais, Le Barbier de Seville. To follow Course 3. Advanced French Composition. Two hours, second semester.

5. **Teacher's Course.** Study of sounds, voice, homonyms, synonyms, word-formation, methods of teaching French, and those niceties of the language in which, as long experience has taught, even advanced students are deficient. While primarily intended for teachers, the course is open also to those who have finished Course 4. Two hours, second semester. Tuesday and Thursday.

6. **French Lyric Poetry in the Nineteenth Century.** G. Walch, *Anthologie de Poetes Francais Contemporaines*. Canfield, *Poems of Victor Hugo*. Open to those who have completed Course 4. Two hours, second semester.

7. **French Pronunciation.** The elements of phonetics in their application to the pronunciation of French. Passy-Rambeau, *Chrestomathie Phonetique*. Two hours, both semesters. Hours to be arranged.

GRADUATE COURSES.

1. **French Literature in Renaissance**, based on Darmesteter and Hatzfeld's *Le Seixieme Siecle en France*, and accompanied by collateral readings and essays in French on works read. Two hours, both semesters.

2. **French Literature of the Seventeenth Century.** A study of the great writers and their principal works. Essays and reports in French on works read. Texts: Brunetiere Doumic, or Pellisier. Two hours, both semesters.

3. **Old French Reading.** Synopsis of Old French Grammar based on Dr. Nonnenmacher's *Lehrbuch der Altfranzösischen Sprache*. *La Chanson de Roland*. Bartseh. *Chrestomatie de l'Ancien Français*. Two hours, second semester.

4. **Historical French Grammar.** 1, Phonology. A study of the phonetic laws which have controlled the evolution of popular Latin into French. Darmstetter's or Nyrop's *Historical Grammar*. All these courses will not be given the same year, but arranged according to circumstances. Admission to any of these courses presupposes an undergraduate study of modern French and for Courses 3 and 4; also of some Latin. In these last courses a reading knowledge of German is very desirable, though not absolutely necessary, for purposes of reference.

GEOLOGY

Professor, Gilbert E. Bailey.

1. **General Geology.** A lecture and recitation course covering the fundamental principles of Geology. Chamberlain and Salisbury's *College Geology*. Two hours, both semesters.

2. **Economic Geology.** Especial attention is given to the resources of the Pacific Coast region. Ries' *Economic Geology*. Two hours, both semesters.

3. **Mineralogy.** A study of the properties, uses and methods of determination of the most important minerals. Laboratory, lectures and field work. Moses and Parsons *Mineralogy*, *Crystallography*, and *Blowpipe Analysis*. Dana's *Mineralogy*. Two hours, both semesters.

UPPER DIVISION COURSES.

4. **General Geology.** Lectures, laboratory and field work. Special attention is given to the geology of the Pacific Coast region. Chamberlain and Salisbury's advanced course in *Geology*; Haye's *Handbook for Field Geologists*; Spurr's *Geology Applied to Mining*. Two hours, each semester. Field work, Saturdays.

5. Physical and Commercial Geography. A lecture and recitation course. Gregory-Keller-Bishop's Physical and Commercial Geography. Two hours, each semester.

GERMAN

Professor, Margaret Graham Borthwick.

Assistant Professor, Ruth W. Brown.

Instructor, Bertha J. Jacoby.

LOWER DIVISION COURSES.

1. Elementary German. Pronunciation, reading and grammar, with practice in speaking and writing German.

This course includes the essentials of German grammar, with various practical exercises in dictation, composition, translation at hearing, and oral and written reproduction.

During the second semester some interesting short stories and characteristic poems are studied. Five hours, both semesters. 8:55, Monday, Tuesday, Wednesday, Thursday, Friday.

Course 1 is intended for students who enter without German. It covers the ground of preparatory subject 10.

2. Modern German. Modern narrative and dramatic prose, selected poems, and one drama of Schiller or Lessing. Grammar continued, with written and oral exercises. Letter writing and composition once every week. Collateral reading. Three hours, both semesters. 8:00, Monday, Wednesday, Friday.

For students who have had Course 1, or two years of High School German.

3. Scientific and Journalistic German. Rapid reading of scientific prose, also leading articles in German newspapers and magazines. Oral exercises. Two hours, both semesters. 1:05, Tuesday, Thursday.

For students specializing in science. Open to those who have had Course 2, or its equivalent.

UPPER DIVISION COURSES.

4. Classical Writers. Dramas of Lessing, Goethe and Schiller. Lyrics and Ballads. Lectures and conversation on the life and works of each author studied. One written exercise each week. Three hours, both semesters. 2:00, Monday, Wednesday, Friday.

Open to students who have had Course 2, or its equivalent.

5. Teacher's Course. Review of grammar, with special emphasis on points necessary for teachers. Introduction to Vietor's system of phonetics, with exercises in reading phonetic texts. Practice in pronunciation and in reading aloud. Recitation of poems, and reading of dramas with assigned parts.

Written exercises in grammar and advanced composition. Two hours, both semesters. 2:00, Tuesday, Thursday.

Required of all students majoring in German. Open to those taking any course beyond 3.

6. Schiller. Chronological study of Schiller's life and works. Reading of one complete drama, probably Wallenstein, with selections from other dramas and the principal ballads. Collateral readings and practice in composition. Two hours, first semester. 1:05, Monday, Wednesday.

7. Goethe. Chronological study of Goethe's life and works. Readings from "Aus meinem Leben," and Goethe's lyrics and dramas. Collateral readings and practice in composition. Two hours, second semester. 1:05, Monday, Wednesday.

8. Nineteenth Century Literature. Representative dramas and novels from Grillparzer, Hauptmann, Freytag and Schefel. Open to students who have had Course 4, or its equivalent. Three hours, first semester. Course 6, alternating with Course 8, will not be given in 1911-12.

9. Goethe's Faust. Interpretation and discussion of both parts, with short historical introduction and collateral reading of Marlowe's Faust and of the Puppenspiel. Three hours, second semester. 1:05, Monday, Wednesday, Friday. Course

- 7, alternating with Course 9, will not be given in 1911-12.
Major Work: Courses 1-9.

GRADUATE COURSES.

10. **German Literature of the Nineteenth Century** and its relation to the historical events and to the cultural and social development of the time. Both the history and the literature are studied, with much collateral reading and reports in German of the works read. Three hours, both semesters. Time to be arranged.

11. **The History of the German Language.** Texts: Be-hagel, *die deutsche Sprache*; Wilke, *Wortkunde*. Work is also done in German composition, according to the needs of the student. One hour, both semesters. Time to be arranged.

GREEK.

Professor, Festus E. Owen.

Instructor, Grace A. Willett.

LOWER DIVISION COURSES.

1. **Beginning Greek.** Burgess & Bonner's *Elementary Greek*. Book 1 of Xenophon's *Anabasis* translated. Practice in sight reading from Book II. Pearson's *Greek Prose Composition* used in connection with the *Anabasis*. Five hours, both semesters. 10:50, Monday, Tuesday, Wednesday, Thursday, Friday.

2. **Xenophon's Anabasis.** Books II-IV translated. Thorough grammar drill. Daily practice in reading at sight. Pearson's *Greek Prose Composition* used daily in connection with the text. Five hours, first semester. 9:55, Monday, Tuesday, Wednesday, Thursday, Friday.

Homer's Iliad. Books I-IV read and translated, Books V-VI read at sight. Special attention given to Homeric forms, scansion, and mythology. *Prose Composition and Grammar review*. Five hours, second semester. 9:55, Monday, Tuesday, Wednesday, Thursday, Friday.

(Students planning to major in Greek, but who offer two years of Greek for entrance, are required to take Course 2, second semester, in addition to courses prescribed for major work.)

3. **Herodotus.** Books VII and VIII; Lucian. Selections for rapid reading. Three hours, first semester. 2:55, Tuesday, Wednesday, Thursday.

4. **Plato.** Apology and Crito with selections from the Phaedo.

Lectures on Greek Philosophy and Plato's ethics in relation to modern thought. Three hours, second semester. 2:55, Tuesday, Wednesday, Thursday.

UPPER DIVISION COURSES.

5. **Xenophon's Memorabilia, Selections.** Plato's Georgias and Protagoras.

A careful study is made through lectures and assigned readings of the history of Greek Philosophy up to Aristotle.

The aim of this course is to introduce the student to the study of Philosophy with reference to its history, its problems and its effect upon human life. Three hours, both semesters. 1:05, Monday, Wednesday, Friday. Omitted 1911-12.

6. **Greek Tragedy.**

(a) Aeschylus—Prometheus.

(b) Sophocles—Antigone.

A careful study of the development of the Greek Drama will be made through lectures and assigned readings. Special attention given to the evolution of religious ideas and to the ethical tendencies in the Dramatists. Three hours, first semester. 1:05, Monday, Wednesday, Friday.

7. **Homer.** Odyssey, four to eight books. Study of the whole period of epic poetry. Collateral reading from standard histories of Greek literature. Jebb's "Introduction to Homer" and Arnold "On the Translation of Homer. Lectures on Homeric religious, social and political customs. Three hours, second semester. 1:05, Monday, Wednesday, Friday.

8. Herodotus and Thucydides. Selections. Three hours, both semesters. Omitted 1911-12.

9. History of Greek Literature from Homer to Theocritus. This course is given primarily in the interest of those students who wish to come in touch with Greek Literature, yet cannot do so through the medium of the Greek language. All reading of Greek authors is from the best English prose and metrical translations available. These readings include Homer (entire), Selections from the Lyric poets, five plays, each, from Aeschylus, Sophocles and Euripides, two comedies of Aristophanes, selections from the Orators and Historians, Plato's *Apology*, *Crito*, *Phaedo*, *Protagoras*, *Gorgias* and selections from the *Republic*. Numerous other authors are presented through lectures. A wide range of collateral reading, with notes, synopses and essays is required covering the field of the development of religious, ethical, philosophical, social and political ideas. Open to all students. Two hours, both semesters. 8:55, Tuesday, Thursday. Six hours credit.

GRADUATE COURSES.

(a) Homer. *Iliad* and *Odyssey* read entire; intensive study of Homeric dialect; Examination of various theories of authorship; Study of Homeric and pre-Homeric life in the light of excavations in Greece, Asia Minor and Crete; Estimation of translations of Homer in connection with Arnold, "On the Translation of Homer;" papers on assigned topics. Class meets three times per week. Hours to be arranged.

(b) Prose Composition. Based on Selections from Xenophon, Plato, Lysias and Demosthenes, endeavoring to master their style, to increase the students' vocabulary and to secure an easy familiarity with the grammar and syntax of Attic Prose. Class meets once a week. Hours to be arranged.

Major Work: Courses 3, 4, 5, 6 and nine additional semester hours.

HISTORY

Professor, T. C. Knoles.

Professor, R. D. Hunt.

Professor, J. M. Dixon.

Assistant Professor, Roy Malcom.

LOWER DIVISION COURSES.

1. English History. With special reference to social and literary development. Text book, supplemented by lectures, reports, and collateral reading. Two hours, both semesters. 10:50, Tuesday, Thursday. (Dr. Malcom.)

2a. Fifteenth Century English History. The Wars of the Roses.

(a) The Lancastrian Tetralogy of Shakespeare; his Richard II, 1 and 2 Henry IV, Henry V.

(b) The Yorkist Tetralogy. 1, 2 and 3 Henry VI, Richard II.

Text: Gairdner's "Lancaster and York," in Epochs of Modern History. See English C 8. Three hours, second semester, A and B alternating. A not given in 1911-12.

3. Seventeenth Century English History. The Age of Milton and Cromwell. See English C 9. Three hours, first semester. 1:05, Monday, Wednesday, Friday.

4. Greek History. A detailed study of the conditions of ancient Greek life, with special reference to the evolution of political and social institutions. Three hours, first semester. 8:55, Tuesday, Thursday; 2, Friday. (Professor Knoles.)

5. Roman History. A series of investigations into the field of the evolution of the city-state of Rome. Lectures, readings, and reports. Three hours, second semester. 8:55, Tuesday, Thursday; 2, Friday. (Professor Knoles.)

6. Mediaeval History. A general survey of the mediaeval period, with special reference to the development of the great institutions, both of church and state. Discussions on Mediaeval philosophic conceptions. Text book, Emerton's

"Mediaeval Europe." Lectures, bibliography making, papers. Three hours, both semesters. 8:55, Monday, Wednesday, Friday. (Professor Knoles.)

7. French Revolution. Open to those students who have studied Course 5 or its equivalent. A series of studies in the field of French institutional life just preceding the outbreak of the revolution. Text book, Lowell, "The Eve of the French Revolution," collateral reading, reports on selected topics. 10:50, Monday, Wednesday, Friday. Three hours, first semester. (Professor Knoles.)

UPPER DIVISION AND GRADUATE COURSES.

8. Modern Continental Europe. A course based on Andrews' "Historical Development of Modern Europe." Lectures and collateral reading. Three hours, second semester. 10:50, Monday, Wednesday, Friday. (Professor Knoles.)

9. English Constitutional History. For advanced students, prerequisite, Course 1. An examination into the origins and the evolution of the English Constitution. Lectures, reports. Two hours, both semesters. 10:50, Tuesday, Thursday. (Professor Knoles.)

10. Colonial History of America. The sources of American life, steps in the unifying process. Lectures and investigations. Two hours, both semesters. 8, Tuesday, Thursday. (Dr. Malcom.)

11. Institutional and Constitutional History of the United States. Large use of the library, studies of cases, lectures, comparisons. Three hours, both semesters. 1:05, Monday, Wednesday, Friday. (Dr. Malcom.) Prerequisite, History IX.

12. The Reformation. A course open to advanced students and teachers. First semester. Three hours, to be arranged. (Professor Knoles.)

13a. Problems of the New Orient. Japan, its history and people. Text: Schwartz's *In Togo's Country...* Two hours, first semester.

13b. The Phillippines. History of the Islands; race problems; constitutional developments. Text: Barrows' "History of the Phillippines." Two hours, second semester. (Dr. Dixon.)

14. Pacific Slope History. Special lecture course, with special reference to California. Two hours throughout the year, to be arranged. (Dr. Hunt.)

15. American Government. Municipal, State and National. Lectures and research. Three hours, throughout the year. (Dr. Malcom.)

ITALIAN

Professor, Edgar M. von Fingerlin.

LOWER DIVISION COURSES.

1. Grandgent's Italian Grammar. Bowen's First Italian Readings, Goldoni's *II Vero Amico*, Grandgent's Italian Composition. Three hours, both semesters. 10:50, Monday, Wednesday, Friday.

2. Manzoni's I Promessi Sposi. Silvio Pellico's *Le Mie Prigioni* and other modern writers. Composition. Two hours, both semesters. 1:05, Monday, Wednesday.

UPPER DIVISION COURSES.

3. Dante, Tasso, Petracca. Advanced Composition. Lectures on Italian Literature. Two hours, both semesters. Hours to be arranged.

LATIN

Professor, Roy Edwin Schulz.

Associate Professor, Ruth W. Brown.

Assistant Professor, Hugh C. Willett.

LOWER DIVISION COURSES.

1. Cicero and Terence. Cicero's *De Senectute* and Terence's *Andria*. Careful interpretation of the text with prac-

tice in reading aloud with proper phrasing and emphasis without translation and in translation at hearing. Three hours, first semester. 9:55, Monday, Wednesday, Friday.

2. Horace. The Odes and Epodes. Lectures on the Augustan Age and Horace's contemporaries. Metrical reading, style and subject matter are given special attention. Three hours, second semester. 9:55, Monday, Wednesday, Friday.

3. Latin Syntax. A complete review in lectures and exercises of Latin Syntax. The exercises are based on Cicero's *De Senectute*. The course is recommended to all registered for Course 1. Two hours, either semester. 9:55, Tuesday, Thursday.

4. Latin Prose Composition. Special attention is given to sentence structure, word-formation, and synonyms. Two hours, second semester. 9:55, Tuesday, Thursday.

5. Latin Comedy. Terence and Plautus. Special attention is given to early forms, meter, etc. Lectures on the development of Roman Comedy, on the Roman theater, on the presentation of plays and on Roman Life. Three hours, first semester. 8:55, Monday, Wednesday, Friday.

6. Livy. Selection from the extant books. Lectures on the history and literature of the period of foreign conquest. Three hours, second semester. 8:55, Monday, Wednesday, Friday.

UPPER DIVISION COURSES.

7. Cicero. Letters. Lectures on the history of the Republic from B. C. 133 with special reference to the contemporary events. Two hours, first semester. 8:00, Tuesday, Thursday.

8. Tacitus. *Agricola* and *Germania*, or selections from the *Annals*. Lectures on the history and literature of the early empire. Two hours, second semester. 8:00, Tuesday, Thursday.

9. Advanced Latin Prose Composition. Writing of essays and letters in Latin. Translation of passages from English

writers. Open only to students who have received a high grade in Course 4, or the equivalent. One hour, both semesters. 2:00, Monday.

10. History of Latin Literature. Lectures on Latin Literature from Livius Andronicus to Boethius, with the interpretation of selections from all prominent authors. The course does not require a knowledge of Latin, and is open to students of all departments. Major students in the department will be required to do outside reading from text. Two hours, both semesters. 8:55, Tuesday, Thursday.

11. Latin Poetry of the Republic. Selections from Lucretius, Catullus, Ovid, Propertius and Tibullus studied largely with reference to thought and artistic form. Two hours, first semester. 2:00, Wednesday, Friday.

12. Latin Poetry of the Empire. Selections from Seneca, Martial and Juvenal. Two hours, second semester. 2:00, Wednesday, Friday.

13. Teachers' Course. Lectures on the Pedagogical Value of Latin, the work of the four years in the secondary school, the place of Composition, Prosody, History, etc., in the study of Latin; visiting and reports from secondary schools in the vicinity of Los Angeles; practice in teaching in the preparatory school of the University. Prerequisite, Philosophy 1.

Open to Juniors and Seniors. Two hours, second semester. 2:00, Tuesday, Thursday.

Major Work: Thirty semester hours, including Courses 3, 4, 9 and 10.

GRADUATE COURSES.

14. Latin Seminar. In 1911-1912 the Seminar will be occupied with a critical study of Vergil's Aeneid, with special attention to sources.

MATHEMATICS

Professor, Paul Arnold.

Assistant Professor, Hugh C. Willett.

LOWER DIVISION COURSES.

1. **Theory of Algebra.** A lecture and text book course in which emphasis is placed principally upon the theory and the development of algebra. This course includes a review of elementary algebra, special attention being given to proofs of fundamental laws and principles. Three hours, both semesters. 10:50, Monday, Wednesday, Friday.

2. **Solid and Spherical Geometry.** The fundamental propositions of the Euclidean geometry of space. Three hours, first semester. 8:00, Tuesday, Wednesday, Thursday.

3. **Trigonometry.** Plane trigonometry and its applications, the trigonometry of the right spherical triangle, and logarithms. Three hours, second semester. 8:00, Monday, Wednesday, Friday.

4. **Algebra.** Mathematical induction, equivalent equations, surds and complex numbers, theory of quadratic equations, simultaneous quadratic and higher equations, ratio, proportion, variation, the progressions and other simple series, inequalities, permutations and combinations, the binomial theorem for any exponent, limits and infinite series, determinants, theory of equations. Two hours, both semesters. 8:55, Tuesday, Thursday (first semester). 8:00, Tuesday, Thursday (second semester).

5. **Advanced Trigonometry.** This course is planned particularly for engineering students, and includes a review of plane trigonometry, as well as a thorough study of the fundamental principles of spherical trigonometry and the application of its formulas to the solution of spherical figures. Prerequisite, Course 3, or entrance trigonometry. Two hours, first semester. 8:55, Wednesday, Friday.

6. **Plane Analytic Geometry.** The analytic geometry of the straight line, the circle, and the conic sections, including

a discussion of the general equation of the second degree, and some special examples in higher loci. Five hours, second semester. 8:55, Monday, Tuesday, Wednesday, Thursday, Friday.

7. Differential Calculus. Development of the fundamental principles and formulas, applications to various problems in geometry and analysis. Three hours, first semester. 9:55, Monday, Wednesday, Friday.

8. Integral Calculus. The general principles of the integral calculus are developed, and the usual applications made to centers of gravity, moments of inertia, and especially to geometry. Three hours, second semester. 9:55, Monday, Wednesday, Friday.

9. Advanced Analytic Geometry. A continuation of Course 6; and also a short course in Analytic Geometry of three dimensions. Three hours, first semester. Hours to be arranged.

10. Differential Equations. An elementary course for students who have taken Course 8. Three hours, second semester. Hours to be arranged.

11. Analytical Mechanics. The mathematical treatment of statics, kinematics and dynamics. Prerequisite, Course 7 and 8. Three hours, first semester; two hours, second semester. 10:50, Monday, Wednesday, Friday, first semester; Wednesday, Friday, second semester. (Professor Lawrence.)

12. Descriptive Astronomy. A general course, requiring only the mathematics of Courses 1-3. Open to students in the last two years of the college course. Two hours, both semesters. 9:55, Tuesday, Thursday. (Professor Lawrence.)

Major Work: Thirty semester hours.

MUSIC

Professor, Walter Fisher Skeele.

Students who take harmony and theory, or advanced instrumental or vocal work in the College of Music may be

allowed college credit for the same, but the credit shall in no case exceed fifteen semester hours, and will be given only upon the recommendation of the Dean of the College Music.

ORATORY

Professor, Beulah Wright.

Associate Professor, Gertrude Comstock.

Associate Professor, Elizabeth Yoder.

Associate Professor, Leonard G. Nattkemper.

Students taking work in the College of Oratory may be allowed credit in the College of Liberal Arts, not to exceed fifteen semester hours, credits to be given only upon the recommendation of the Dean of the College of Oratory.

1. Vocal Expression.

(a) Principles of expression, voice building and tone placing. Expression of the body. Interpretation of literature from the text. Two hours, either semester.

(b) Advanced vocal training and bodily expression. Interpretation from modern authors. Kipling, Van Dyke, Stevenson, Maclaren, and others. Two hours, either semester.

2. Public Speaking.

(a) Extemporaneous work. Preparation and delivery of short speeches such as talks on current public questions, toasts, discussions. Two hours, first semester.

(b) Extemporaneous work. Preparation of briefs for debate, forensics, argumentations, lectures. Two hours, second semester.

3. **Oratory.** A study of masterpieces of oratory. Text: Sears' History of Oratory. The preparation and delivery of one original oration. Two hours, either semester.

4. **Bible and Hymn Reading.** Vocal Expression of the Bible and Hymns, Voice Building. Text: Curry's Vocal and Literary Interpretation of the Bible. Two hours, either semester.

5. Vocal Interpretation.

Lyric Poems. Training of the Imagination. Studies in Tennyson, Burns, Browning, Wordsworth and others. Two hours, first semester.

6. Shakespeare. King Lear or Julius Ceasar, Midsummer Night's Dream, or Twelfth Night. Two hours, second semester.

7. Interpretation and Expression. (See Education 12.)

(Tuition for the above courses is payable at the Office of the College of Oratory.) (See Tuition College of Oratory.)

Provision is made for a special class in the principles of Expression, for those students who enter the college without the required Preparatory School work. This is an elementary course of two hours for one semester; no college credit will be allowed for it.

PHILOSOPHY

Professor, James H. Hoose.

Professor, John G. Hill.

Professor, Thomas B. Stowell.

LOWER DIVISION COURSES.

1. Psychology. The aim in this subject is to acquaint the student with what is valuable in the investigations in Mental Science. Text Books, lectures and original investigations. This course is the required work in Philosophy. Three hours, both semesters. 8:55, Monday, Wednesday, Friday.

2. Logic. The elements in this subject as given in Creighton's Logic, with practical exercises. Three hours, first semester. 1:05, Monday, Wednesday, Friday.

3. Ethics. Borden P. Bowne's Principles of Ethics, accompanied by lectures, discussions, library references and special inductive and constructive studies in the ethical teachings of Jesus, the great poets and philosophers and autobiographers, ancient and modern; current ethical problems of

the day are treated in the light of recent psychology and mental science. The last part of the semester is given to a detailed study of human duties, individual and social, civic and divine, in accord with the rapid moral advance in applied ethics. Prerequisite, Psychology. Two hours, first semester. 9:55, Tuesday and Thursday.

4. Theism and the Philosophy of Religion. The aim in this Course is to examine carefully the leading ultimate grounds offered as explanations of reality, and to set forth the theistic ground of a supreme, self-existent, personal Being as the only satisfactory explanation. A clear philosophy of Religion is sought by a sympathetic study of the light which recent science sheds upon the problems of nature, man and mind. Modern Naturalism in its suicidal metaphysical implications and its inferiority to explanation by Personal Idealism is treated. The texts used are Iverach and Bowne. Prerequisite, Psychology. Two hours, second semester. 9:55, Tuesday and Thursday.

5 The Evidences and Philosophy of Christianity. The various evidences for the truth of Christianity are canvassed. It is shown how the completion of the moral and religious process in man demands Jesus Christ; and how Christianity is the key to life's philosophy, answering the question: "How can we best explain the mysteries of life?" The many apologetic questions troubling the probing student ancient and modern difficulties concerning Christianity are vigorously considered. The text book work is supplemented by frequent lectures and library work. Two hours, throughout the year. 9:55, Wednesday and Friday.

UPPER DIVISION AND GRADUATE COURSES.

6. Metaphysics. This is an investigation into the determination of Being. For Seniors. Two hours, second semester. 10:50, Wednesday and Friday.

7. Aesthetics. A study of Beauty and its influences upon the Feelings, the Intellect, and the Will. Two hours, first semester. 8:55, Tuesday and Thursday.

8. History of Philosophy. Weber's History of Philosophy, covering Ancient and Modern Philosophy. Three hours, both semesters. 8:00, Monday, Wednesday, Friday.

GRADUATE COURSES.

9. Philosophy of Civilization. A course that investigates the Forces and Forms which have built up civilization. The study touches Philosophy of History.

10. Oriental Philosophy. An inquiry into the Forms of Living that have characterized Oriental Institutions.

11. Philosophy of Kant. Select portions of Kant.

12. Philosophy of Hegel. Select parts of his Philosophy.

13. Philosophy of Governments. An inquiry into the forms which sovereign power has assumed in the process of historical governments. The study touches Philosophy of History.

POLITICAL SCIENCE

Professor, T. C. Knoles.

Assistant Professor, Roy Malcom.

UPPER DIVISION COURSES.

1. Elements of Political Science. Historic origin of political science; theories of the state; nature of sovereignty; the structure and province of government. With lectures, readings and student reports. 8:55, Tuesday, Thursday, throughout the year. (Dr. Malcom.)

2. International Law. The nature, sources and principles of international law, the influence of Christian civilization upon rules and the contribution of the United States to its development. Three hours, throughout the year. Prerequisite, Political Science 1. Hours to be arranged. (Dr. Malcom.)

3. Parties and Governments in Continental Europe. A series of studies in the field of the comparison of the various methods of government in actual practice in the various states of continental Europe. Text book, Lowell, "Parties and Governments in Continental Europe." The text book is supplemented by a full reading course, and by many reports upon detailed topics. Three hours, second semester. (Prof. Knoles.) Hours to be arranged.

PHYSICAL EDUCATION

Dean Cromwell, Director of Men's Athletics.

John S. Robson, Director of Men's Gymnasium.

Edna Cocks, Director of the Women's Gymnasium.

1. Systematic class work in gymnastics for men. The work consists of vigorous drill with dumb-bells, Indian clubs and wands, besides progressive graded work on the various pieces of gymnastic apparatus. Required of all first-year students. Four hours, both semesters. (Robson.)

2. An advanced course for men combining light and heavy gymnastics. Open to those who have completed Course 1. Four hours, both semesters. (Robson.)

2. An advanced course for men combining light and heavy gymnastics. Open to those who have completed Course 1. Four hours, both semesters. (Robson.)

3. Outdoor sports and light gymnastics for women; tennis, basket ball, volley ball, light work on the ladies' athletic field; recreative games and walking. Two hours, both semesters. (Miss Cocks.)

4. Systematic class work in gymnastics for women. The work consists of drill with dumb-bells, Indian clubs, wands and rhythmical exercises for grace and harmony of movement. Two hours, both classes. (Miss Cocks.) Women's gymnasium classes meet Tuesday and Thursday at 9:55, 10:50 and 1:05. Women's tennis classes meet Monday and Wednesday at 8:00, 8:55, 9:55, 10:50, 1:05 and 2:00. Basket ball

class for women, Monday and Wednesday at 3:50. Walking Club meets on Tuesday and Thursday, 3:50. The first Tuesday in each month the plunge is reserved at Bimini Baths for all gymnasium girls.

Men's classes meet Monday, Tuesday, Wednesday, Thursday, at 2:00, 2:55 and 3:50.

Note.—Four semester hours in Physical Education is the required and also the maximum number for an A.B. degree.

PHYSICS

Professor, Arthur W. Nye.

Associate Professor, J. C. Gaylord.

Laboratory Assistant, L. N. McClellan.

Laboratory Assistant, W. I. Gholz.

LOWER DIVISION COURSES.

1a. General Physics. Electricity. Lectures 10:50, Monday, Wednesday, Friday. First Semester.

1b. General Physics. Heat. Lectures, 8:00, Tuesday, Thursday. First semester.

2a. General Physics. Mechanics. Lectures, 10:50, Monday, Wednesday, Friday. Second semester.

2b. General Physics. Light. Lectures, 8:00, Tuesday, Thursday. Second semester.

These courses are open to all who have completed preparatory physics and trigonometry. The instruction is given by lectures, study of a text and laboratory work. The text used in each of the courses is Watson's Physics. In addition to the class hours noted above, three hours will be spent in the laboratory each week.

3. Mechanics. An advanced laboratory course continuing Course 1 may be taken concurrently with it. Experiments are made along such lines as moment of inertia, uniformly

accelerated motion, modulus of rigidity, force of gravity, etc. Four periods of laboratory work per week, with occasional lectures. Two hours, either semester. Hours to be arranged. (Nye.)

4. Shop Work. Instruction in the use of wood and metal working tools and machinery, including cutting, filing, drilling, tapping, polishing, screw cutting and elementary lathe work. Two or four periods in laboratory, one or two hours, either semester. Hours to be arranged.

5. Applied Electricity. A course in the principles and applications of electricity. Prerequisite, Physics 1. Two hours, second semester. 9:55, Tuesday, Thursday. (Gaylord.)

UPPER DIVISION COURSES.

6. Electrical Measurements. A laboratory course in which the theory and methods of exact electrical determinations are taken up, including the determination of resistance by various methods, galvanometer constants, measurement of current and electromotive force, insulation tests, hysteresis and permeability tests, calibration of instruments, use of condensers, measurement of induction, etc. Six periods per week. Two hours, first semester. 1:05-3:50, Tuesday, Wednesday. (Gaylord.)

7. Advanced Heat. A laboratory course consisting of work of the nature set forth in Millikan's "Mechanics, Molecular Physics, and Heat." Four periods in the laboratory with occasional lectures. Hours to be arranged. Two hours, either semester. (Nye.)

8. Advanced Light. A laboratory course involving considerable work with the spectroscope and photometer. Hours and credits to be arranged. (Nye.)

9. Mechanism. Mechanics of link motions, cams, quick-return motions, etc. Belts and rope drive. Graphical solutions of mechanical movements and forces. Gearing. Two hours, first semester. 8:00, Tuesday, Thursday. (Gaylord.)

SPANISH

Professor, Katherine T. Forrester.

Assistant, Ester Huet y Ferrat.

LOWER DIVISION COURSES.

1. **Elementary Spanish.** During the first semester special stress is laid on foundation work. A thorough drill is given in pronunciation, reading and writing. Conversation is given from the beginning. Grammatical forms, especially regular verbs, are learned.

During the second semester besides this, short stories by prominent Spanish authors are read and translated. Five hours, both semesters. 8:55, Monday, Tuesday, Wednesday, Thursday, Friday. (2 Divisions.) 1:05, Monday, Tuesday, Wednesday, Thursday, Friday.

2. **Advanced Spanish.** Prose Composition on practical subjects is given, using Ramsey's Grammar as a guide. Short stories are read and discussed in class. Letters and original compositions are given from time to time. Collateral reading and reviews in Spanish of novels and drama. Three hours, first semester. 9:55, Monday, Wednesday, Friday.

3. **Advanced Reading and Composition.** Reading from Gil Blas and Don Quixote with a view to familiarizing the student with typical Spanish characteristics in literature. Outside reading of short novels. Reviews written in Spanish. Continuation of Grammar in connection with advanced exercises in Composition. Three hours, second semester. 9:55, Monday, Wednesday, Friday.

4. **Spanish Conversation.** Based on text book and articles taken from Spanish newspaper. Two hours, both semesters. 9:55, Tuesday, Thursday.

5. **Commercial Spanish.** Business letters, stenography and typewriting in Spanish. Two hours, throughout the year. 9:55, Tuesday, Thursday.

6. **Modern Novels and Drama.** The work of important novelists, such as Alarcón, Valdes, Pardo, Bazán, Valera,

UPPER DIVISION COURSES.

Galdós, are read and reviewed. Conversation based on stories, read to the class. Three hours, first semester. 10:50, Monday, Wednesday, Friday.

7. Contemporary Novels, Drama and Poetry. A great deal of reading is done both in the class and as collateral work. The Spanish viewpoint is brought out and the life of the people studied through their literature. Discussions are carried on in Spanish. Three hours, second semester. 10:50, Monday, Wednesday, Friday.

8. Classical Spanish. Reading from Cervantes, Lope de Vega and Calderon. Picaresque novels and plays of Capa y Espada taken up. Short lectures given in Spanish on early periods of Spanish literature. Two hours, each semester. 10:50, Tuesday and Thursday.

9. Lectures on Later Periods of Spanish Literature. Reference reading in Fitz Maurice-Kelly and Tichnor. Forces which led to development in certain directions are pointed out. Much collateral reading is done. Two hours, second semester. 10:50, Tuesday and Thursday.

CIVIL ENGINEERING

Professor, Charles W. Lawrence.

Assistant Professor, Thomas A. H. Teeter.

Field Work Assistant, C. W. Cook.

Field Work Assistant, W. A. Hall.

Field Work Assistant, K. Q. Volk.

The great industrial development of recent years in every part of the United States has created a large demand for trained Civil Engineers. The course in Civil Engineering has been made broad in order to meet this demand, by providing a sufficient foundation for the wide range of practice now included under Civil Engineering.

Very few college students know in what part of this wide field their life work will lie. Because of this, and the great

difficulty of mastering fundamentals during the stress of professional work, it has seemed best to provide a broad university preparation and to defer specialization to the period of active employment.

The course is designed to give a practical as well as theoretical training. Nearly as much time is spent in the drawing room, laboratory, and field, as in the lecture room.

By consulting the schedule following it will be seen that considerable time is devoted to Mathematics, English, Modern Languages, and Sciences. Of the more technical work, the Field Engineering is given very full treatment in lecture room, office and field.

In the third year Theoretical Mechanics is thoroughly developed and forms the basis for the designing and construction which occupies the remainder of the course. The importance of correct methods of thought and practice is constantly inculcated.

A very large amount of important engineering work is continually going on in the vicinity of Los Angeles. The proximity of harbors, mines, irrigation and water-supply projects, several trans-continental railroad terminals, extensive electric power plants and railway systems, offer a diversity of excellent examples of engineering construction. Students in this Department, accompanied by Instructors, are required to inspect much of this work, and to present written reports on what they have seen.

Required Course in Civil Engineering

FIRST YEAR

First Semester

	Lab. Hours.	Class Hours.
Math., 4, 5—Alg. and Trig.....	—	4
Chemistry, 2—Qual. Anal. ....	...	3
Chemistry, 2a	6	...
Civil Engr., 1—Surveying Theory .....	...	2
Civil Engr., 2—Field Work	6	...
Eng. Drawing, 1	6	...
English A., 1 .....	...	3

Second Semester

	Lab. Hours.	Class Hours.
Math., 6—Analytical Geom.....	---	5
Chemistry, 3	---	3
Chemistry, 3a	6	---
Civil Engr., 1	---	2
Civil Engr., 2	6	---
Engr. Drawing, 2.....	6	---
English, A 1	---	3

SECOND YEAR**First Semester**

Math., 8—Differential Calculus	---	3
Geology, 3—Mineralogy	---	2
Eng. Drawing, 3—Descrip. Geom.....	3	1
Civil Engr., 13—Materials	---	3
Physics, 1—Elec. and Heat	5	3
French or Spanish	---	5

Second Semester

Math., 9—Int. Calculus	---	3
Physics, 4—Shop	2	---
Geology, 3	---	2
Civil Engr., 3—Higher Surv.	3	1
Engr. Drawing, 3 Descrip. Geom.....	3	1
Physics, 2—Mech. and Light.....	3	3
French or Spanish	---	5

THIRD YEAR**First Semester**

Civil Engr., 7—Anal. Mech.....	---	3
Civil Engr., 8—Mech. of Materials.....	---	2
Civil Engr., 15—Graph. Statics	3	1
Civil Engr., 4—R. R. Engr. Theory.....	---	2
Civil Engr., 5—R. R. Engineering Practice.....	6	---
Elect. Engr., 1—General	---	5
Thermodynamics	---	2

Second Semester

Civil Engr., 7.....	2	
Civil Engr., 8	3	
Civil Engr., 16—Stresses	3	
Elec. Engr., 5—Steam Engr.....	2	
Civil Engr., 9—Hydraulics	3	
Civil Engr., 6—R. R. Economics.....	3	2
Civil Engr., 18—Struct. Design.....	6	....

FOURTH YEAR**First Semester**

Civil Engr., 18—Struct. Design	6	1
Civil Engr., 15—Foundations .....	....	2
Geology, 1 .....	....	2
Math., 10—Astronomy .....	....	2
Civil Engr., 17—Engr. Lab.	3	....
Civil Engr., 11—Water Supply .....	....	3
Civil Engr., 12—Sanitary Engr. ....	....	2
Civil Engr., 10—Irrigation Engineering.....	....	1
Civil Engr., 23—Thesis	3	....

Second Semester.

Civil Engr., 18	6	1
Civil Engr., 20—Tunneling, Mining .....	....	1
Geology, 1 .....	....	2
Math., 10 .....	....	2
Civil Engr., 21—Reinforced Concrete	3	2
Civil Engr., 22—Contracts and Specifications....	....	2
Civil Engr., 19—Highway Engr. ....	....	2
Civil Engr., 23—Thesis	6	....

COURSES IN CIVIL ENGINEERING

1. **Surveying.** Recitations and lectures on the theory and practice of plane surveying. The course includes the use and care of instruments; methods of procedure and of keeping notes for land, city and mining surveys; instruction in

computation and platting of field notes. Prerequisite, the completion of a course in plane trigonometry. Two hours throughout the year. 10:50, Tuesday and Thursday.

2. Surveying Field Work. The practical adjustment of surveying instruments; the proper method of keeping clear field notes, and the working of field problems with chain, tape, level, plane table, transit, compass, etc. The work in the drawing room consists of platting the field notes and making profiles and maps. Six periods, throughout the year. Course 1 to be taken concurrently. 1:05-3:50, Wednesday, Thursday, Friday.

3. Higher Surveying. Topographical surveys with plane table and stadia, city surveys, mine surveys, measurement of base lines, determination of meridian and latitude. Three hours field work and one lecture period per week. Prerequisites, Courses 1 and 2.

4. Railroad Surveying. A course including the theory of curves, switches and sidings; the making of reconnoissances, and preliminary and location surveys; the computation of earthwork and determination of structures, and making final estimates of cost. Two hours, first semester. 9:55, Tuesday, Thursday. Prerequisites, Courses 1 and 2.

5. Railroad Surveying Field and Office Work. Practice in laying out curves, and making complete surveys for a short line of railway and doing the office work. Eight periods, first semester. 1:05-4:30, Monday, Tuesday.

Course 5 must be taken concurrently.

6. Railroad Engineering. The fundamental principles of economical location, construction and betterment surveys. A discussion of yard and terminal design, the study of the permanent right of way in regard to its relation to maintenance and operation. Prerequisite, Course 4. Two hours, second semester. 9:55, Tuesday and Thursday.

7. Analytical Mechanics. The mathematical treatment of statics, kinematics and dynamics, including determination of

center of gravity, moment of inertia, centrifugal force, etc. Three hours, first semester; two hours, second semester. Prerequisite, Mathematics 8 and 9. 10:50, Monday, Wednesday, Friday, first semester; Wednesday, Friday, second semester.

8. Mechanics of Materials. A mathematical course in resistance and elasticity of materials, stresses and strains, shearing, flexure, beams, columns, shafts. Two hours, first semester; three hours, second semester. Course 7 must be taken concurrently. 10:50, Thursday, Friday, first semester; Monday, Tuesday, Thursday, second semester.

9. Hydraulics. Hydraulic pressure, strength of pipes, flow of liquids through pipes and orifices and over weirs, losses of head, flow of water in open channels, dams of masonry and earth, hydraulic motors and machinery. Three hours, second semester. 8:55, Monday, Wednesday, Friday. Prerequisite, Course 7.

10. Irrigation Engineering. Diversion, conveyance and application of water for irrigation. Design of reservoirs, dams, and diversion works. One hour, first semester. Prerequisite, Course 9.

11. Water Supply. Determination of quantity and quality of supply, water purification, and conservation, design of a system. Three hours, first semester. Prerequisite, Course 9.

12. Sanitary Engineering. Drainage of buildings, treatment and disposal of sewage, sewer systems for cities. Two hours, first semester. Prerequisite, Course 9.

13. Materials of Construction. A study of the manufacture and properties of stones, cements, concretes, timber, iron, steel, etc., with special attention to determination of safe working stresses. Three hours, first semester. 8:00, Monday, Wednesday, Friday.

14. Foundations. The foundation of bridges and buildings. The construction of coffer dams, piers, caissons, ma-

sonry arches, and retaining walls. Two hours, first semester. Prerequisite, Course 8.

15. Graphical Statics. The graphical determination of the stresses in engineering structures. Three hours, first semester. 9:55, Monday; 1:05-3:50, Thursday. Course 7 must be taken concurrently.

16. Stresses in Framed Structures and Arches. The analytical and graphical methods applied to determining stresses in roof and bridge trusses, and mason arches. Three hours, second semester. 9:55, Monday, Wednesday, Friday. Prerequisite, Course 15.

17. Engineering Laboratory. Testing of engineering materials. Three laboratory hours, first semester. Prerequisite, Course 13.

18. Structural Design. Theory for and practice of making complete designs for steel bridges, roofs, and other structures. Lectures, drawing and computing. One hours lecture, six hours draughting. Prerequisite, Courses 8, 13 and 16.

19. Highway Engineering. Roads and streets of broken stone, paved and oiled roads, location of new roads. Two hours, second semester.

20. Tunneling and Mining. Excavation, lining, ventilation and drainage of tunnels and mines; sinking shafts, pumping and hoisting. One hour, second semester. Prerequisite, Course 11.

21. Reinforced Concrete. Theory, design and construction of concrete and reinforced concrete structures. Two hours lecture, three hours draughting, second semester. Prerequisites, Courses 7 and 8.

22. Contracts and Specifications. A synopsis of the law of contracts as applied to Engineering construction and a study of typical contracts and specifications. The course includes

riparian rights, boundary lines, survey descriptions, etc. Two hours, second semester.

23. Thesis. A study of some special engineering problem or an independent investigation by the student. The subject must be approved by the professor in charge of the department of Civil Engineering and by the professor who would have immediate direction of the work proposed, not later than November 1st of the Senior year. It must be completed and submitted by June 1st of the same year. One hour, first semester; two hours, second semester.

ELECTRICAL ENGINEERING

Professor, Arthur W. Nye.

Assistant Professor, J. C. Gaylord.

John Rogers, Mechanician.

The courses offered in this department are designed to fit young men to engage in the operation and production of electrical apparatus, also in the application of electricity to the Arts and Sciences.

During the Freshman and Sophomore years there is laid a broad foundation, consisting of Physics, Mechanics, Chemistry, Surveying and Language. During the Junior and Senior years special studies in electricity and applied electricity are pursued. These involve the theory of electricity and magnetism, with application to direct current machines and measuring instruments, the theory of alternating currents and alternating machinery and apparatus, comprising alternators, synchronous and induction motors and rotary converters. Courses are also given in Electrical Distribution and Transmission, Lighting and Power plants.

The work of the Engineering Laboratories is co-ordinate with the lecture and class room and aims to give a practical knowledge of electrical measurements and the handling of electrical machinery.

Southern California, in its present state of rapid development, offers exceptional opportunity to the hydraulic and

electrical engineer. The work of the University is splendidly supplemented by the large amount of work under construction. The engineers and superintendents in charge of these have been very courteous in aiding the classes on their various trips of inspection. The various power and electric plants in and about Los Angeles afford excellent examples of electric development of high tension and power transmission not surpassed by any other in the United States. Various excursions to these plants and lectures by superintending engineers are some of the features enjoyed by the students of this department.

Required Course in Electrical Engineering

FIRST YEAR

First Semester

	Lab. Hours.	Class Hours.
Math., 4, 5—Algebra, Trig.....	---	5
Engr. Drawing, 1	6	---
Chemistry, 2—Qual. Anal.....	---	3
Chemistry, 2a	6	---
English, A 1	---	3
Civil Eng., 1—Surveying, Theory	---	2
Civil Eng., 2—Surveying, Field	6	---

Second Semester

	Lab. Hours.	Class Hours.
Math., 6—Analytical Geometry	---	5
Eng. Drawing, 2	6	---
Chemistry, 3	---	3
Chemistry, 3a	6	---
English, A 1	---	3
Civil Eng., 1	6	---
Civil Eng., 2	6	---

SECOND YEAR**First Semester**

French or Spanish	---	5
Physics, 1—Elec. and Heat.....	3	3
Math., 8—Calculus	---	3
Engr. Draw., 3—Descrip. Geom.....	3	1
Physics, 4—Shop	4	---
Civil Engr., 13—Materials	---	3

Second Semester

French or Spanish	---	5
Physics, 2—Mech. and Light.....	---	5
Math., 9—Int. Calculus	---	3
Elect. Engr., 11—Shop.....	---	3
Physics, 4—Shop	4	---
Physics, 5—Electricity	---	2
Elect. Engr., 11.....	---	1

THIRD YEAR**First Semester**

Elect. Engr., 1—General	---	5
Physics, 6—Elect. Measurements	6	---
Civil Engr., 7—Anal. Mech.	---	3
Civil Engr., 8—Mech. of Mater.....	---	2
Physics, 9—Mechanism	---	2
Elect. Engr., 4—Thermodynamics.....	---	3

Second Semester

Elect. Engr., 1	---	5
Elect. Engr., 2—Dynamo Lab.....	6	---
Civil Engr., 7	---	2
Civil Engr., 8	---	3
Elect. Engr., 5—Steam Engr.....	---	2
Elect. Engr., 6—Excursions	3	---
Eng. Drawing, 4—Mach. Design.....	3	2

FOURTH YEAR

First Semester

Elect. Engr., 3—Alter. Currents	5	....
Elect. Engr., 7—Dyn. Lab., A. C. Mach.....	6	....
Elect. Engr., 8—Elect. Design	3	2
Economics, 1	3	....
Elect. Engr., 9—Engr. Lab.	3	....
Elect. Engr., 12—Thesis	3	....

Second Semester

Elect. Engr., 3	5	....
Elect. Engr., 7	9	....
Elect. Engr., 6—Excursions	3	....
Elect. Engr., 10—Commercial Elect. Engr.....	2	....
Economics, 2	3	....
Civil Engr., 9—Hydraulics	3	....
Elect. Engr., 12	3	....

COURSES IN ELECTRICAL ENGINEERING

1a. Dynamo Electric Machinery. This course comprises a study of the theory and operation of direct current generators and motors. Text: Elements of Electrical Engineering, Vol. 1, by Franklin & Esty. Five hours, first semester. 8:55, Monday, Tuesday, Wednesday, Thursday, Friday. (Nye.)

1b. Dynamo Electric Machinery. This course comprises a study of electric distribution and lighting and the elementary principles of Alternating Currents. Five hours, second semester. 8:55, Monday, Tuesday, Wednesday, Thursday, Friday. (Nye-Gaylord.)

2. Dynamo Laboratory. Study is made of the performance of direct current machines by means of their characteristic curves; efficiency, regulation and heat tests are run; and various methods of operating generators and motors and their auxiliary control apparatus are studied. Junior Year.

Six periods. Second semester. 1:05-3:50, Monday, Tuesday. (Gaylord.)

3a. Alternating Currents. A mathematical study of the theory, and applications to modern machinery. Study of text and lectures. Text: Elements of Electrical Engineering, Vol. 2, by Franklin & Esty. Five hours, first semester. 10:50, Monday, Tuesday, Wednesday, Thursday, Friday. (Gaylord.)

3b. Electrical Engineering. Railway engineering, power plant engineering, water power installations, economics of electrical engineering, etc. Five hours, second semester. 10:50, Monday, Tuesday, Wednesday, Thursday, Friday.

4. Steam Engineering. Boilers, combustion, fuels, laws of gases and heat conduction, corrosion and scale, testing, flow of steam in pipes, etc. Practical apparatus as used in steam power plants. Thermodynamics, expansion of gases, heat cycles, temperature-entropy diagrams and pressure volume diagrams applied to gas, hot air and steam engines. Three hours, first semester. 8:00, Monday, Wednesday, Friday. (Nye.)

5. Steam Engineering. A study of various types of steam engines, indicator cards, valve motions and diagrams, multiple expansion, design of parts. General layout of plants. Two hours, second semester. 9:55, Monday, Wednesday. (Nye.)

6. Excursions. Trips to various power plants and factories with a view to observing methods and processes. Written reports required of students.

7. Dynamo Laboratory. Tests and study of alternating current apparatus. Senior Year. Six periods. Both semesters. (Gaylord.)

8. Electrical Design. Study of types of electrical machinery; calculations and detail drawings. Senior Year. Two periods class, three periods drafting. First semester (Gaylord.)

9. Engineering Laboratory. Testing of strength of materials, engine and boiler efficiencies, etc. Senior Year. Three periods.

10. Transmission and Station Equipment. A study of commercial problems of electric power generation and distribution, and of standard polyphase machinery. Two hours, second semester.

11. Workshop Mechanics. A consideration of the materials of machine construction, the methods of working them and workshop appliances. Lectures, no credits, but required of all graduates in Electrical Engineering. (Nye, Gaylord.)

12. Thesis. Original investigation and study of some special problem.

MINING AND CHEMICAL ENGINEERING

Professor, Laird J. Stabler.

The University is at present offering two years of the course in Mining and Chemical Engineering. The work, as outlined, gives thorough training in the fundamental subjects of mathematics, chemistry, physics, drawing and the elements of engineering. The foundation laid in the two years prepares the student to enter any of the good mining colleges, and complete the work of the Junior and Senior years, specializing in Mining and Metallurgy.

Courses in Mining or Chemical Engineering

Freshman Year

	First. Semester.	Second Semester.
Math., 4, 5, 6.....	5	5
Chem., 2, 2a, 3, 3a.....	5	5
Civil Engineering, 1.....	2	2
Civil Engineering 2 (Field Work).....	3	3
Engineering Drawing, 1, 2.....	4	4

Sophomore Year

Math., 8, 9 (Calculus).....	4	4
Geology, 3—Mineralogy	2	2
Eng. Drawing, 3—Descriptive Geom.....	1	1
Eng. Drawing, 3	3	3
Physics, 1, 2	5	5
Chemistry, 4, 8	4	4

SUMMER SESSION OF 1911

COLLEGE OF LIBERAL ARTS

Tentative Announcements.

The Summer Session of the College of Liberal Arts will be held for six weeks during July and August, the exact dates to be announced later. Courses in the Summer School are designed to meet the needs of the following classes of students:

1. Undergraduates and Graduates of a College or University.
2. Teachers, including those in public schools, private schools and other institutions of learning.
3. Auditors, those desiring to hear courses of lectures or occasional lectures (not for credit).
4. Preparatory and Special Students, those who are deficient in entrance credits or who wish to make a study of some particular subject.

For entrance no formal examinations are required, but students will be admitted to such courses only as their previous training has prepared them to pursue profitably.

Students will register and pay their fees at the general office of the University before entering classes. A registration fee of one dollar is charged all students. The fees for the different courses are indicated in the announcement of each department.

The maximum college credit will be six semester hours. In preparatory subjects not over one unit may be earned, the student devoting his entire time to the work.

COURSES OF INSTRUCTION**BIOLOGY**

Assistant Professor Andrew C. Life, A. M.

1. General Botany, 3 to 6 units.
2. Special Botany, 3 to 6 units.
3. General Zoology, 3 to 5 units.
4. Preparatory Botany, $\frac{1}{2}$ or 1 unit.
5. Preparatory Zoology, $\frac{1}{2}$ or 1 unit.

\$14 or \$24 for each course

CHEMISTRY

Professor Laird J. Stabler, M. S.

1. Elements, 3 to 6 units.
2. Qualitative Analysis, 3 to 6 units.
3. Preparatory Chemistry, $\frac{1}{2}$ or 1 unit.

\$18 for each course

DRAWING

1. Mechanical, 1 unit. \$10 for the course
2. Engineering Drawing, 2 to 4 units.

\$7.50 or \$15 for the course

ECONOMICS

Professor Rockwell D. Hunt, Ph. D.

1. Principles, 2 or 3 units.
2. Labor Problems, 2 or 3 units.

\$10 for each course

EDUCATION

Professor Thomas B. Stowell, LL. D.

1. History of Modern Education, 3 units.
2. Principles of Education, 3 units.

\$12.50 for each course

ENGLISH

Professor James Main Dixon, L. H. D.

Associate Professor Odell Shepard, A. M.

1. Contemporary British and American Poets (Shepard).
2. Contemporary Drama (Shepard).
3. Modern Essay, 1800-1900 (Shepard).
4. Chaucer, 2 units (Dixon).
5. Shakespeare, 2 units (Dixon).

Preparatory Courses to be announced.

\$10 for each course

FRENCH

Professor Edgar M. Von Fingerlin, Ph. D.

1. Elementary, 2 units.
2. Modern Authors, 3 units.
3. Classical Literature, 3 units.

\$12.50 for each course

GERMAN

Instructor Bertha J. Jacoby, A. B.

1. Elementary, 3 units.
2. Modern Authors, 3 units.
3. Classical Authors, 3 units.

\$12.50 for each course

HISTORY

Professor Tully C. Knoles, A. M.

Professor Rockwell D. Hunt, Ph. D.

Assistant Professor Roy Malcom Ph. D.

1. English, 2 units (Malcom).
2. Mediaeval, 2 units (Knoles).
3. U. S. Constitutional, 2 units (Malcom).
4. Pacific Slope, 2 units (Hunt).
5. American, $\frac{1}{2}$ unit (Knoles).
6. Civics, $\frac{1}{2}$ unit (Knoles).
7. English, Preparatory, $\frac{1}{2}$ or 1 unit (Malcom).
8. Ancient, Preparatory, $\frac{1}{2}$ or 1 unit (Malcom).

\$10 for each single course. 1 Preparatory unit \$15

ITALIAN

Professor Edgar M. Von Fingerlin, Ph. D.

1. Elementary, 3 units.
2. Modern, 3 units.
3. Classical, 3 units. \$12.50 for each course

MATHEMATICS

Professor Paul Arnold, Ph. M.

Assistant Professor Hugh C. Willett, A. B.

1. Algebra Theory, 3 units.
2. Trigonometry, 3 units.
3. Solid and Spherical Geometry, 3 units.
4. Plane Analytical Geometry, 3 units. \$15 for each course
5. Algebra, Preparatory, $\frac{1}{2}$ unit.
6. Algebra, Preparatory, $\frac{1}{2}$ unit.
7. Advanced Algebra, Preparatory, $\frac{1}{2}$ unit.
8. Plane Geometry, $\frac{1}{2}$ unit.
9. Plane Geometry, $\frac{1}{2}$ unit. \$12.50 for each course

PHYSICS

Professor Arthur W. Nye, M. E.

1. Electricity and Heat, 4 units.
2. Mechanics and Light, 4 units.
3. Preparatory, $\frac{1}{2}$ unit.
4. Preparatory, $\frac{1}{2}$ unit. \$15 for each course. 3 and 4 together \$25

SOCIOLOGY

Professor Rockwell D. Hunt, Ph. D.

1. Sociology and Social Theory, 2 or 3 units.
2. Social Theory, 2 or 3 units. \$10 for each course

SPANISH

Instructor Ester Huet

1. Elementary, 3 units.
2. Advanced, 3 units.
3. Conversation, 2 units. \$12.50 for each course

COLLEGE OF PHYSICIANS AND SURGEONS

CALENDAR

1911.

September 13, 14, 15.....	Examination for Entrance and Advanced Standing in the Session of 1910-1911.
September 18	First Semester begins.
September 23	Thanksgiving Vacation.
September 25	Christmas Vacation begins.

1912.

January 2	Second Semester begins.
February 22	Washington's Birthday.
May 20	Final Examinations begin.
June 13	Commencement.

FOREWORD

The University of Southern California in keeping pace with other of the leading universities of the country was quick to note the advancements being so rapidly made in medical science, and, in establishing and building up the various university departments, was one of the first institutions in the West to broaden the scope of the curriculum in its medical department. In 1885, when the medical department of this university was founded, the Trustees placed themselves on record for higher medical education, declaring for a three-year course, which was the exception at that time, and since then has been among the first in the rank of universities to lift its medical department up to the highest plane of efficiency. Money has been liberally spent and no pains have been spared to equip the medical laboratories, broaden and perfect the clinical departments, and to place them in charge of experienced and capable teachers and instructors. The Alumni of the medical department of this University

number many of the leading physicians and surgeons of this country—trained, skilled men and women in their chosen profession, and an honor to the institution that prepared and equipped them. The College of Physicians and Surgeons of Los Angeles, an institution of high class, became an integral part of the University of Southern California one year ago, thus becoming its medical department, its faculty believing that better work could be done under the auspices of a strong university, where the university spirit might be inculcated into the various branches of its medical course. The wisdom of this union was apparent and is manifested by the superior work now being done in all departments of the medical curriculum.

The government of the College of Physicians and Surgeons is vested in the Board of Trustees of the University and in the Judicial Council and Senior Faculty of the Medical Department, as provided in the articles of incorporation of the University.

ENVIRONMENTS

The City of Los Angeles, with a population of about 350,000, is but little less talked of, written about, and wondered at, than any other city in the world, located as it is, in the very heart of Nature's most favored spot on earth, surrounded by a semi-tropic panorama so inviting and so enchanting that all those who come within its gates are amazed at the lavishness of Nature's gifts to the City of the Angels—the brightest gem in the diadem of America's most charming cities of refinement and culture.

Here will be found all the elements that tend to make student life pleasant and attractive. The ideal climatic influences permit the student to spend much time in the open air, 'mid surrounding of historic interest, 'neath sunny skies, with semi-tropic foliage, flowers and blossoms on every hand, while, stretching away into the distance, are found orange orchards and lemon groves, leading up to the very base of the mountain range, with towering peaks perpetually covered with snow and half surrounding this garden spot that Nature has so well endowed.

The curriculum of this college is so full and so broad that it requires and exacts the greater portion of the student's time, but still there must be some time for relaxation and recreation, and here Nature has prepared in abundance opportunities for these necessities. The rigorous climate of the East and the Middle West keeps the student too much indoors, and, as a consequence, he becomes the subject of the devitalizing influences of a physically inactive life. We invite the attention of students whose health has become impaired by climatic conditions elsewhere, and yet we do not encourage invalids to come to Los Angeles for study in this college, for we do not believe that invalids should enter upon the study of medicine. The requirements are too exacting and the work too arduous, and the man or woman who is weak, mentally or physically, should not attempt the study or the practice of a profession requiring so much self-sacrifice and untiring effort.

The population of Los Angeles is essentially cosmopolitan. People in the different walks of life, from all quarters of the globe, are to be found here, and we have, therefore, an abundance of clinical material, which this college utilizes to the very best advantage.

THE COLLEGE BUILDING

Located at 516 East Washington Street, in a charming section of Los Angeles, surrounded by splendid homes and easy of access, not on the outskirts of the city, nor yet too near the business center, is to be found the modern and commodious building of the College of Physicians and Surgeons. Our college building was designed, planned and erected especially for our use, and contains all of the elements of a modern and up-to-date college building. It is three-story, with basement, built of brick, with stone facings, and is practically fire-proof.

In the basement is located our instantaneous water heating system; a furnace which conveys heated air to each department, with apparatus for forcing cool and pure air into each room when needed; storage tanks for anatomical material; a receiving and preparation room for same; a clay modeling

room for the use of the Anatomical Department; also a Gymnasium, well equipped, and with shower bath for the use of students.

On the first floor is located the College office, Faculty room, two Chemical laboratories, thoroughly equipped with all modern apparatus and appliances, clinical rooms for each department of medicine and surgery, operating room, sterilizing room, clinic waiting room and drug room. .

Located on the second floor are the Pathological, Bacteriological, Histological and Physiological laboratories, which have east, north and west exposures, affording an abundance of light, and are well heated and equipped with all modern appliances. Glass covered tables are arranged around the north and west exposures, and all the latest apparatus has been installed. Each student is supplied with microscope (Bausch and Lomb's), with oil immersion lens, for use when required. Private laboratories form a part of the main laboratory hall, thus affording opportunity for private research. On the second floor is also located one large amphitheatre, seated with two hundred modern opera chairs; one lecture hall seated with opera chairs; an Electro Therapeutic room, equipped with Static Machine, X-Ray apparatus, and all necessary appliances; a chart room, supplied with imported charts, manikins, etc., arranged for use in various illustrative and didactic work; also a library and reading room, commodious, well lighted and ventilated, and arranged for the convenience and use of students. Many valuable volumes are found upon the library shelves, periodicals and journals are also there for the use of our students, and, upon the shelves of the College Museum may be found many rare and valuable Pathological specimens.

Much new apparatus has been added in the Physiologic and Electro-Therapeutic departments, stereopticon illustration is one of the leading features in our primary departments, and, in fact, no expense has been spared to most thoroughly equip this college with the latest and best paraphernalia and equipment for the teaching of modern medicine and surgery. Several thousand dollars in apparatus was installed for the opening of our 1910-11 session.

On the third floor is located our Anatomical Department, and it is most complete in every detail. Opening into our main Anatomical Department, by sliding doors, is our Anatomical amphitheatre, seated with opera chairs and arranged so that the most delicate operations and demonstrations upon the cadaver can be witnessed, a revolving table being used. All these features, and many more, serve to make our equipment modern and up-to-date in every detail and, at the same time, provide for the comfort and the health of our teachers and students.

REQUIREMENTS

Requirements for Matriculation

The requirements for matriculation and entrance into this College have been placed high in order to conform to the requirements of the leading medical institutions of the country. The proper foundation for a thorough and comprehensive medical education must be builded before the student enters upon his medical course. This College does not deviate in the least from its bulletined requirements as set forth in this catalogue; therefore the prospective student, before applying for matriculation, should know that his preliminary qualifications are up to our standard of requirements, or so nearly so that he will be able to make up during his Freshman year, any deficiency in credits.

The minimum requirements of this College are as follows:

(a) A bachelor's degree in the Arts and Sciences from an approved college or university.

(b) A certificate of the Association of American Universities.

(c) A diploma from a regular, accredited high school, normal school, or academy, requiring for admission thereto evidence of the completion of an eight years' course in the primary and intermediate grades, and for graduation therefrom not less than four years of study, embracing not less than two years (4 points) of Latin, two years (4 points) Mathematics, two years (4 points) English, one year (2

points) History, one year (2 points) of Laboratory Science, and seven years (14 points) of further credits in Language, History or Science.

(d) In event of a student not having completed his full high school course, or of his having done special work in high school, college or academy, or in event of an applicant not being able to furnish satisfactory evidence of having completed a course of study necessary to acquire the required number of points in the different branches as above stated, he may be examined by the Examiner appointed by the Board of Medical Examiners of the State of California, whose certificate will be accepted by this College. This Examiner is a resident of this city, and this examination may be taken at any time previous to the student's matriculation. Examinations bearing upon the applicant's preliminary qualifications will in no event be conducted by any person or persons connected with this Faculty or with this institution, but must be conducted by the Examiner appointed by the Board of Medical Examiners of the State of California.

The minimum number of points required for matriculation are as follows:

A. REQUIRED: (16 Points).	Points
Mathematics—(minimum, 2 years; maximum, 3 years).....	4
Algebra and Plane Geometry.	
English—(minimum, 2 years; maximum, 4 years).....	4
(a) English Grammar;	
(b) Rhetoric and Composition.	
*Latin—(minimum, 2 years; maximum, 4 years).....	4
(a) Latin Grammar;	
(b) Latin Prose Composition;	
(c) Reading four books of Ceasar, or equivalent.	
Physics—(1 year)	2
With laboratory work.	
History—(minimum, 1 year; maximum, 3 years).....	2
Including Civics and Political Economy.	—
Total required	16

B. OPTIONAL: (14 Points).

English Language and Literature—(2 years).....	4
Only if taken after the required English.	
Language—German, French, Spanish or Greek (4 years)....	2
Not less than one year in any one.	
Advanced Mathematics—Solid Geometry and Trigonometry (one-half year each)	1
Natural Science (1 year).....—.....	2
Biology, 1 year, or Botany and Zoology, one-half year each.	
Physical Science—(1 year).....	2
Chemistry.	
Earth Science	1
Physical Geography and Geology, one-half year each.	
Physiology and Hygiene (one-half year).....	1
Astronomy (one-half year).....	1
Drawing (one-half year)	1

*For present Latin requirement, may be substituted four years of either high school French or German, or its full equivalent; provided satisfactory examination is passed in the elements of Latin grammar.

Thus making up the thirty points required for matriculation. A student may be matriculated, conditioned in not more than six points, made up of either Required or Optional subjects, which conditions he will be required to discharge before entrance into the Sophomore Class. In explanation, it may be well to state that in designating the requirements in each subject as so many points, one point in any subject is equivalent to a high school or academic course of five periods per week of not less than 45 minutes each for eighteen weeks.

Candidates who are not qualified for admission to the Department of Medicine, upon matriculation at the College of Liberal Arts of the University, may elect courses especially designed for those who plan to study medicine. These courses include Physics, Inorganic and Organic Chemistry,

Zoology, Botany, Embryology, Bionomics, and should give the student that grasp on fundamental branches which is essential for a proper understanding of the medical course.

COURSE OF STUDY

Each student is required to attend 80 per cent of all exercises in every annual course of study for which he seeks credit. No student shall be given credit on examination unless he shall have attained a grade of at least 75 per cent or its equivalent in any other marking system, and no student shall be graduated unless he shall have attained a passing grade on examination of at least 80 per cent. in each and all subjects taught and examined upon in this college.

The curriculum of study in this college is divided in a manner that enables the student to complete his minors, together with the majority of the laboratory courses, during the Freshman and Sophomore years, thus enabling the Junior and Senior students to avail themselves of the vast didactic, recitative and clinical work, which compose the last two years of the course in this institution.

Advanced Standing

This college does not grant time credits to students holding a baccalaureate degree or a degree in Pharmacy or Dentistry, nor for time spent in any other than a regular College of Medicine and Surgery—whose curriculum and course meet the requirements of the Association of American Medical Colleges; but we may grant the student subject credit for work done, providing, of course, satisfactory evidence of such work having been done is furnished; thereupon the student may avail himself of equivalent electives.

A student who has previously matriculated with and has spent time in another accredited medical college, recognized as such by this institution, will be required to present to the Dean of this college a statement from the Dean of the college he has attended, stating that he has paid all dues and fees due said college, that he is free from all charges or demerits

of whatever nature, and that he has satisfactorily completed the course of study prescribed by the curriculum of said college; and provided that the entrance requirements of the college from which he presents his credentials were equivalent to those of the Association of American Medical Colleges at that time, and the course of study provided and set forth in each student year was equivalent to the requirements of this school; and provided, further, that the Judicial Council are satisfied with his credits and markings, taking into consideration his general average, which will include his percentage of attendance upon all lectures, recitations, laboratory work and clinics, then the student may enter upon his work in the succeeding grade, but before advanced standing will be granted him the Dean of this college will verify the student's credentials, and if found complete and satisfactory, credit for the work will be entered upon the records of this college; but such advancement will not exempt the student from the final examination requirements exacted of all students applying for a degree from this college.

A student presenting credentials and credits from another medical college, recognized by this college, should bear in mind the fact that such credentials must show that the credits were received in the regular way, and in the regular course of instruction; that said course must have been regular and in accordance with the requirements of the Association of American Medical Colleges, the California State Law and the Board of Medical Examiners of the State of California. No credit whatever will be allowed for time not actually spent in a regular recognized medical college.

A student who has attended one or more courses in an otherwise reputable medical college, but whose entrance requirements are not now equivalent to those of this institution, notwithstanding he may meet our class examination requirements, will not be granted advanced standing, unless the preliminary qualifications of said student were equivalent to the requirements of this college at the date of his matriculation with the college from which he comes.

Graduates of medical colleges, whose requirements were equivalent to those prescribed by the Association of American

Medical Colleges, and whose credentials are recognized by the Board of Medical Examiners of the State of California, will be admitted to the Senior class without examination, provided, however, that the curriculum of study of the aforesaid college covered three full years, and provided also that the requirements for matriculation were equivalent to the requirements of the Association of American Medical Colleges at the time of his matriculation. Should, however, the college from which the applicant graduated have only prescribed and required at the time of his graduation a two-years' course, the applicant will be matriculated in the Junior year and be required to pursue the course outlined in our Junior year schedule, provided that the matriculant is working for a degree from this school, but not otherwise. Juniors and Seniors of this college are required to attend at least 80 per cent. of all clinics throughout the Junior and Senior years.

To graduates and students of Colleges of Homeopathic or Eclectic Medicine will be granted time credits for as many years as they attended those colleges, provided they have met the previous requirements of the Association of American Medical Colleges, and they pass an examination in *Materia Medica* and *Therapeutics*, as prescribed by this college. All students admitted to advanced standing must show credentials of having passed regular examination in the branches taken in the year preceding the one they desire to enter, or pass such examination in this college.

The carrying and removal of conditions in all cases will be governed by the rules and regulations promulgated from time to time by the Association of American Medical Colleges and in conformity to the State Law of California. When not conflicting with these rules and regulations, it will be necessary in order that a student may advance from one grade to the succeeding or higher grade, that he pass at least all but two of the required examinations in the branches or subjects taught in that year, except passing from the Junior to the Senior year. Should he fail to pass the examinations at the beginning of the succeeding session, in the subjects in which he has been conditioned, as stated above, he may enter that class as a conditioned student for that one session

only, and if he does not remove said conditions by the end of the session, he must repeat the work of the year imposing such conditions.

No student can, therefore, become a conditioned or an unconditioned member of the Sophomore class unless he has at least passed all but two of the required Freshman year examinations when that year closes; nor of the Junior class unless he shall have passed the Freshman year examinations and, in addition, at least all but two of the Sophomore year examinations at the close of that year; nor of the Senior class unless he shall have passed all of the Freshman, Sophomore and Junior year examinations. This college does not permit the carrying of conditions into the Senior year.

This college reserves the right to refuse admission to any student or to terminate the attendance of any student, at any time for what may appear to the Judicial Council to be good and sufficient cause, as inefficiency, conduct unbecoming a gentleman, or conduct not conducive to the morale of the class or institution; also, to refuse a student the privilege of any special or final examination, for causes, as above stated.

Students will not be permitted to substitute private work in any branch for the regular college work prescribed in our curriculum, except under the direct supervision of an instructor designated or appointed by the Dean. Examinations will be conducted in such work done by the Professor to whose department it belongs; no markings nor credits from private instructors will be recognized by this college.

A student entering this college is not only supposed to, but will be required to conform to all rules and regulations of the college as promulgated from time to time by the Dean.

A student who is under suspension or expulsion from an accredited medical college, will not be matriculated in this institution without the written consent of the college imposing such.

A student defacing or injuring the property of this college will be required to make due reparation for same.

Requirements for Graduation

The applicant for the degree of Doctor of Medicine must have fulfilled all the requirements, as set forth in this an-

nouncement, and other additional requirements that may be promulgated from time to time by this college.

1st. He must have attained the age of 21 years and bear a good moral character.

2nd. He must notify the Dean on or before the 1st day of April of the College year, in writing, of his intention to apply for, and to take the final examinations of this college; said application must be accompanied by the Examination fee, all previous college fees having been paid.

3rd. He must have previously met all the matriculation requirements of this college, must have attended at least four full courses of lectures, recitations, laboratory work, and clinics, in an accredited medical college, whose requirements are equal to those prescribed by this college, no two courses having been done in the same year, the last course of which must have been in this college. If the student has attended courses in another Medical College, recognized by this institution, he must satisfy the Judicial Council, through the Dean, regarding his standing and his proficiency in the branches completed, either by examination or otherwise as the Judicial Council may elect.

4th. He must have completed the required courses in all the departments of the college, and his percentage of attendance must be at least 80 per cent. in all departments, and his percentage of proficiency on examination must not be less than 80 per cent. in all the branches indicated in our curriculum.

5th. He must be present at the time and place scheduled by the Dean for final examinations, and his absence from an examination in a given department will indicate failure in that department, and will be entered as such against the student.

6th. He must undergo a written final examination, or both written and oral, if required, in all departments; each paper must be written in English; and penmanship, orthography,

punctuation, general style and characteristics of each paper will be considered.

7th. He must be free from demerit marks, must have discharged all conditions in each and every department and must be present at the Commencement Exercises, unless excused in writing by the Dean.

Combined Six Year Course for Degree of A. B. and M. D.

Students who have matriculated in the College of Liberal Arts of the University and who plan to study medicine, may so combine the four-year course for the A. B. degree with the four-year course for the M. D. degree as to take both degrees in six years.

Combined Course for the Degree of A. M. and M. D.

Students holding the A. B. degree from recognized colleges and who enter the Freshman class of the College of Physicians and Surgeons, may matriculate at the Graduate School of the University, thus becoming candidates for the A. M. degree. Registration at the Graduate School may be made any time before the opening of the Junior year. The candidate pursues advanced study along some special line and submits a thesis embodying original research. The degree of Master of Arts is given to the candidate upon the completion of the requirements for the advanced degree.

FACILITIES FOR INSTRUCTION

The Faculty and the general teaching staff of the College of Physicians and Surgeons have been selected with scrupulous care and comprise many of the ablest teachers and leading men and women in the West. The instructors in each department have been selected upon their merits, each instructor working along his chosen line. This college lays much stress upon its laboratory equipment and the thoroughness of its laboratory courses. Much valuable apparatus was added the past year and more is added from time to time, as needed. Two large and thoroughly equipped laboratories for the teaching of Chemistry, Pharma-

cology and Physiology, one of the most modern laboratories for work in Pathology, Bacteriology and Histology, together with private laboratories for special and research work, all thoroughly equipped, also one of the most modern anatomical departments with ample material, make this school the pride of its founders and friends, and a worthy department of the University of which the College of Physicians and Surgeons is an integral part. But laboratory facilities and equipment alone are not sufficient for a thorough course in these departments. Laboratories must be manned by competent and experienced teachers and instructors, and in this college the laboratories are in charge of paid instructors, noted for their abilities as teachers in their respective departments.

The College Clinic—Clinic No. 1

From 12:30 to 2 p. m. each day, excepting Sundays and holidays, the College Dispensary is open to the needy poor, and the Dispensary Staff of the college, composed of carefully selected professional men and women, give their very best services to those applying for treatment, and, as the College of Physicians and Surgeons is located in a decidedly well-to-do neighborhood, therefore the clinics in this institution are of a decidedly high order, capable of giving a complete case history, which enables the teacher and student to carefully study each case in detail and note from time to time the effect of therapeutic measures. Material coming to this clinic is ample and of splendid quality.

The Down Town Clinic—Clinic No. II

Realizing the importance of a thorough clinical training in all departments of medicine and surgery, after proper preparation in the fundamental essentials, this college has broadened and completed its clinical facilities by the establishment of a down-town clinic, which will furnish rare opportunities to our students for actual contact with injury and disease. Clinic No. 2 is located in a district rich in clinic

material and will give aid yearly to thousands of cases which will enable our Junior and Senior students to perfect themselves in diagnosis and treatment. This clinic is open daily, except Sundays and holidays, from 12:30 to 2 p. m. A thoroughly trained corps of instructors is in attendance in all the various departments, and participation in this clinic work is obligatory upon the student and is an important part of our curriculum and requirements. Junior and Senior students will alternate between the college and down-town clinic in sections as at the County Hospital.

The County Hospital Clinic

The Los Angeles County Hospital, the most extensive, modern and up-to-date county charity institution in the West, with over five hundred beds, detention wards for the insane, modern medical, surgical and contagious wards and departments, where all manner of surgical and medical cases may be studied and observed, offers rare and ample opportunities for the study of not only the ordinary diseases and conditions usually met with in other large hospitals, but also rare tropical and semi-tropical diseases that drift into Los Angeles through our seaport, the gateway of entrance from Panama, Hawaii, the Philippines, etc., the study of the diseases indigenous to which is most necessary at this time. Many interesting cases are daily met with here, which afford unusual opportunities for research work, and it is the policy of the clinical and laboratory staffs in this college to foster and to assist students along these lines of work. The advantages to the student here consist not merely in his walking through the wards, observing patients, with an occasional opportunity to examine, but the Senior and Junior classes are divided into section, and these sections of two or three students are allotted cases each week and are required to examine and diagnose by the latest and best known laboratory and clinical tests, write histories covering the etiological factors of each disease and outline the treatment and management of given cases throughout the different stages. This does not, however, end the student's interest in the case, which must be

followed to convalescence or to autopsy, in which event, the pathological findings are recorded and reported upon by the section in charge of the case, the efficiency, or otherwise, of work thus done being noted.

The opportunities for the study and observation of acute Surgery are many, many cases being sent in from the City Hospital after first aid is given, and hundreds of cases being taken direct to the hospital for first aid and subsequent treatment. The ambulatory Surgical clinic is unexcelled, and the Detention Wards afford a rich field for the study of the various forms of neurotic cases and conditions. Students in this college are required to serve their time in each and all of the various departments of this hospital, which offer so rich a field for clinical experience.

Hospital Positions

Internships and appointments in hospitals throughout the city and in surrounding towns are available to graduates from this college; in fact, in the past we have been unable to fill the positions open to appointments.

College Fees

Matriculation Fee (paid but once).....	\$ 5.00
Tuition Fee (payable in advance), per year.....	150.00
Final Examination Fee (not returnable).....	25.00

A deposit of \$10.00 is required of all students to cover breakage and damage to buildings and equipment. The unexpended balance is refunded at the close of the year.

A rental of \$5.00 for microscope and \$2.00 for immersion lens is charged each year for their use in Histology, Embryology, Bacteriology, Microscopy and Pathology. The student will be charged for all breakage in any of the laboratories.

These fees are payable in advance each year. If not paid within four weeks of the beginning of the course, the right to attend lectures may be forfeited, and no student will be permitted to take an examination who is in arrears for fees,

and no advanced standing whatever will be given a student under such conditions.

Places of Association, Recreation and Amusement

The students of medicine in this college, as in other medical institutions throughout the country, come from the various walks of life. By this we mean environmental influences; therefore, each seeks for himself a continuation or renewal of those environments which have shaped his habits and moulded his methods of life, as it were. This city affords, in abundance, opportunities for individual gratifications. Churches of all creeds and denominations are here in plenty, the Y. M. C. A. is strong and influential and extends a cordial welcome to young men who seek the refining influences of this splendid association. The Y. W. C. A., working along the same lines, is ever ready and anxious to serve the young woman who may wish to have thrown about her a Christian influence and a friendship that does much to assist, to shield and to protect. Then, on the other hand, we have clubs, social and political; lodges and societies of all kinds; high class theaters and places of amusement, and, in fact, all things that serve to relieve the student mind at times from the strain and grind of college work, all of which are necessary and right, when properly indulged in.

Prizes to Be Awarded, Session 1911-12

The Faculty will give a prize to the member of the Freshman Class who obtains the highest general average in the final examinations upon the studies of that year.

The Faculty will give a prize to the member of the Sophomore Class who obtains the highest general average in the final examination upon the studies of that year.

The Faculty will give a prize to the member of the Junior Class who obtains the highest general average in the final examinations upon the studies of that year.

The Faculty will give a prize to the member of the Senior Class who obtains the highest general average in the final examinations upon the studies of that year.

Expense of Living in Los Angeles

The student can live in Los Angeles as in other large cities, moderately or extravagantly, according to his means or his habits of life. Good room and board near the college may be had for \$20.00 per month.

How to Reach the College

Upon arrival in the city, go directly to the office of the Dean, Dr. Charles W. Bryson, Delta Building, 426 South Spring street, make known your wishes and present your credentials. You will receive the most courteous treatment, and full information will be given you on all subjects pertaining to the college, either by the Dean in person or his secretary. The Clerk of the College will be instructed to assist you in selecting suitable quarters, and each member of the Faculty, as well as many students of the school, will endeavor to make you feel at home. The term opens promptly on the 14th of September, in all departments, and there is no waste of time until Commencement Day, the 15th of June.

Address all communications relative to college matters, applications for catalogues, etc., etc., to the Dean,

DR. CHARLES W. BRYSON,
401-404 Delta Building, Los Angeles, California.

DEPARTMENTS OF INSTRUCTION

ANATOMY

Professor, Harry Oscar White, M.D.

Assistant Professor, Robert Henry Burton, M.D.

Associate Professor, Raphael Burke Durfee, M.D.

Associate Professor, Henry Michael Rooney, A.B., M.D.

Associate Professor, John C. Ferbert, M.D.

Associate Professor, Clarence Holmes Criley, Ph.B., M.D.

Associate Professor, Albert B. Ulrey, A.M.

Assistant Demonstrator, Frank E. Hull, M.D.

The study of Anatomy is divided into six courses and extends throughout the entire four years of college work. The laboratories and dissecting room are well equipped, and an abundance of working material is assured.

1. Practical Anatomy. Each student of the first and second year is required to dissect the entire lateral half of the body in three parts, during which he is assisted and quizzed by the instructors. When the student has finished a part, he must show suitable drawings made from his work and pass an examination before allowed to begin his next part. 360 hours, Freshman year; 396 hours, Sophomore year.

2. Bones, Joints and Ligaments, and three recitations a week for first year students; 108 hours.

The bones are studied individually and collectively, the students pointing out and describing the different parts from actual specimens. Bones are loaned the students for private study.

3. Muscles, Vessels, and the Viscera. This course extends throughout the first year, including 72 hours of recitation work, with special demonstrations on the cadaver.

4. Comparative Anatomy. One lecture a week through the Freshman year. 36 hours.

A course of lectures, illustrated copiously with osteological material and preserved specimens.

Structure is the servant of function. The effort is made in the course to point out the way in which the physiological functions common to all animals are provided for in the structure of type forms from among the lower animals. It is planned thus to give a broader conception of the living animal body, the zoological characteristics of the human species and the biological forces that have brought about the present peculiarities of form.

5. The Nervous System, Special Senses and the Reproductive Organs are taken up in the second year. Two recitations a week, with drawings of the part studied. 72 hours.

6. Surgical Applied Anatomy and Operative Surgery on the cadaver will be taught in the third year. 36 hours.

Text Books—Anatomy: Cunningham & Cunningham's Dissector.

For Reference: Piersol; Morris; Gray, and Treves.

HISTOLOGY

Associate Professor, Ethel Langdon Leonard, B.S., M.D.

Six hours a week throughout the Freshman year is given to the subject of Histology. The work is divided into two courses.

1. Elementary Histology is given the first of the Freshman year. The study of fresh tissues, those which have been dissociated, is first given to the student. Fixed and hardened tissues are next studied. All the elementary tissues of the body, including normal blood, are studied. The student is required to make sketches and colored drawings of all the specimens studied.

2. The work of the second semester is devoted to the study of the organs of the human body. Rapid methods of fixing and hardening tissues are discussed, and every technical detail of the work of preparing tissues for microscopical study is

demonstrated and discussed. Quizzes, written reviews and practical tests are given to the class at frequent intervals throughout the year.

Text Books recommended for study: Bailey's Histology; Clarkson's Text Book of Histology; Quain's Anatomy; Sczymonowicz & MacCallum, Microscopical Histology.

EMBRYOLOGY

Lecturer, Ethel Langdon Leonard, B.S., M.D.

One recitation and two laboratory hours per week throughout the Sophomore year are given to the subject of Embryology. The lecture course will embrace a comparative study of reproduction in the animal kingdom. Cell reproduction, fertilization, maturation, formation of gastrula, the ovum, implantation, etc., the relationship and structure of the foetal envelope will be thoroughly considered.

The Laboratory Course will consist of drawings, with full descriptive notes and examinations of sections of embryo of the pig, chick, etc., in various stages of development.

Text Book: Heisler.

CHEMISTRY

Professor, Lyman Brumbaugh Stookey, A.M., Ph.D.

Assistant Professor, Alanson Halden Jones, A.M., M.D.

1. General Inorganic Chemistry. (First year students.)

Two hours lectures; six hours laboratory, and two hours recitations during the first half of the first semester.

Those phases of Inorganic Chemistry are considered which are necessary for a thorough understanding of chemical principles. Those aspects of physics which are required to give a thorough view of the constitution of matter, the element particle and its behavior, also the newer physics sufficient to make plain the subject of ionization are treated. The laboratory exercises are representative in character. The needs of the medical student are kept in mind. Most time is given

to those elements whose compounds later will be his chief study.

2. Some Applications of Physical Chemistry to Physiology. (First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the first semester.

Among the subjects discussed are: Theory of solution, the properties of dissolved substances, osmotic pressure, concentration law, catalysis, mass action, ionization, thermo-chemical change, colloidal state, some reactions which go on in living matter, the physico-chemical organization of the cell.

3. Special Methods of Quantitative Analysis. (First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the first semester.

Those quantitative methods, both volumetric and gravimetric, are taken up which have an application in practical medicine.

4. General Organic Chemistry. (First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the second semester.

The laboratory exercises embrace a study of the aliphatic derivatives, the carbocyclic and heterocyclic compounds, and a synthesis of some typical substances. Ultimate analysis of organic compounds, derivation of formulae, methods of substitution and of addition are treated. While the principles of the subject are considered from the standpoint of pure chemistry, the examples, illustrations and laboratory exercises deal with methods and with compounds required in practical medicine.

5. Toxicological Chemistry. (First year students.)

Two hours lectures, six hours laboratory, and two hours recitations during part of the second semester.

The object of this course is to acquaint the student with the more common volatile, alkaloidal and metallic poisons, and the methods employed in toxicological analysis.

6. Advanced Toxicological Chemistry. (Elective.)

Two hours second semester alternate years.

The aim of this course is to afford an opportunity to acquire a more thorough knowledge of toxicology than is possible in the elementary required course. The student is drilled in quantitative methods employed in toxicological analysis. Alleged blood stains are examined. To receive credit for this course each student must report satisfactorily on six poisoned animals submitted to him for toxicological analysis.

7. Chemistry of Carbohydrates, Fats and Proteins. (First year students.)

Two hours lectures, six hours laboratory and two hours recitations during part of the second semester.

This course deals with the chemistry of the common carbohydrates, fats and proteins, including those which occur in the body. In the laboratory the methods for their detection, differentiation and quantitative estimation are taught. The more common cleavage products of the protein molecule are studied.

8. Analysis of Food. (Elective.)

Three hours weekly first semester alternate years.

The more common methods employed in the analysis of foods are taught, emphasis being laid on the more frequently used adulterants and preservatives and their detection.

9. Water Analysis. (Elective.)

Three hours weekly during the second semester.

The student choosing this course is given an opportunity to familiarize himself with the methods used in the chemical analysis of water.

10. Pathological Chemistry. (Third year students.)

One hour lecture and one hour recitation during the second semester.

The following subjects are discussed: Inorganic salts in disease, calcification, concretions and incrustations, uraemia, eclampsia, intestinal putrefactive processes including auto-intoxication, Ptomaines, benign and malignant tumors, phy-

totoxins, zootoxins, retrogressive processes, pathological pigmentation, chemical defenses of the body against disease.

11. Pathological Chemistry. (Elective.)

Two hours weekly during first semester, alternate years.

In this course the student is drilled in laboratory diagnosis. Opportunity is offered to examine pathological stomach contents, blood, urine, faeces, exudates, concretions, cerebro-spinal fluid, and other available material with reference to diagnosis.

12. Chemical Conference. (Elective.)

Those who are interested are invited at times to be announced to discuss informally selected problems in medical chemistry, usually such as supplement instruction given in other ways. Problems under investigation in the laboratory are introduced for discussion.

Reference Books—Chemistry:

(Inorganic): Gooch and Walker.

(Organic): Perkins and Kipping.

Toxicology: Autenrieth.

PHYSIOLOGY

Professor, Lyman Brumbaugh Stookey, A.M., Ph.D.

Assistant Professor, Alanson Halden Jones, A.M., M.D.

Instruction in this department is given by lectures, laboratory exercises, demonstrations and recitations. The laboratory exercises enable the student to acquire a direct acquaintance with experimental methods. The chief ends sought in the laboratory exercises are precision in conducting experiments, accuracy in observation and logic in deduction.

Formal written examinations in each course of this department are held at frequent intervals. These tests are invaluable in the cultivation of a clear and concise expression of thought.

The assistantships in this department are honor positions and are awarded according to scholarship and fitness.

1. Physiology of the Cell. (First year students.)

Three hours lectures, four hours laboratory and two hours recitations during the first half of the first semester.

The cell is studied as an elementary organism, emphasis being laid on it as the seat of vital processes. Special attention is given to the structure and chemistry of protoplasm, chemical reactions in the cell, irritability, contractility, tropisms, development of multicellular from unicellular organisms.

2. Physiology of Muscle and Nerve. (First year students.)

Three hours lectures, four hours laboratory and two hours recitations during the second half of the first semester.

Kymographical records are made by each student. The laboratory exercises include a study of the following: Mechanical, thermal, chemical and electrical stimulation of muscle and nerve, indirect and direct stimulation of muscle, changes in intensity of stimulus, minimal and maximal stimuli, influence of duration of stimulus, laws of contraction, natural tetanus, artificial tetanus, elasticity and extensibility of muscle, influence of temperature and load on muscular contraction, contraction of human muscle, kymograph, electrotonus, fatigue of muscle, fatigue of nerve, muscle currents, nerve currents, velocity of nerve impulse, conditions affecting excitability of nerve.

3. Physiology of Circulation, Blood and Lymph. (First year students.)

Three hours lectures, four hours laboratory and two hours recitations during the first half of the second semester.

Graphical records are kept by each student. Most of the experiments are carried out on the frog's heart. Among the topics studied in the laboratory are: Staircase character of heart-beats, cardio-inhibitory center, latent period of cardiac muscle, effect of vagus on heart, action of atropin, muscarin, pilocarpin and nicotin on heart, constant current on heart, perfusion of fluids through the heart, endocardiac pressure, action of the heart valves, reflex inhibition of the heart, sphygmograph, blood pressure in different parts of the vascular system, red cell count, white cell count, differential count,

colorimetric estimation of haemoglobin, spectroscopical examination of haemoglobin and its derivatives, haemorrhage and regeneration, coagulation.

4. Physiology of Respiration, Reproduction, Animal Heat. (First year students.)

Three hours lectures, four hours laboratory and two hours recitations during the second half of the second semester.

The laboratory exercises embrace a study of the following: Movements of the chest wall, vital capacity, respiratory waves of blood pressure, variations of intrathoracic pressure, gases of the blood, reflex stimulation of respiratory center, relation of afferent fibers of vagi to respiratory center, respiratory quotient and its variations, modified respiratory movements, calorimetry.

5. Physiology of Digestion, Absorption, Secretion, Excretion and Metabolism. (Second year students.)

Two hours lectures, six hours laboratory and one hour recitation during the first semester.

6. General Chemical Physiology. (Second year students.)

Two hours lectures, six hours laboratory and one hour recitation during the second semester.

This course embraces a study of the chemical changes occurring in the body, the chemical constituents of almost every tissue, and the functions of the constituents of the different tissues.

8. Physiological Action of Drugs (Pharmacology). Second year students.)

One hour lecture and one hour demonstration or recitation during both semesters.

This course consists of a study of the changes induced in the living organism by the administration of the more common and important drugs. Laboratory demonstrations supplement the lectures.

8. Advanced Pharmacology. (Elective.) Alternate years.

One hour lecture weekly during the first semester.

In this course a study is made of the physiological changes induced in the body by the less frequently used drugs. The relation between chemical constitution and pharmacological action is considered in studying some of the newer synthetical drugs.

9. Physiology of the Central Nervous System and the Sense Organs. (Second year students.)

One hour lecture and one hour laboratory or recitation during the second semester.

During the first semester the class is trained in the anatomy of the brain. During the second semester the physiology of the central nervous system is studied. Emphasis is laid upon a reflex action, reaction time, localization of functions in cerebrum, motor and sensory tracts in central nervous system and physiological optics.

10. Advanced Physiology. (Elective.) Alternate years.

This course consists of a detailed study of special subjects in Physiology, and includes the reading of original investigations along lines to be assigned, and the performance of laboratory experiments. Each student electing this course is required to carry out a complete metabolism experiment.

11. Operative Physiology. (Elective.) Alternate years.

The object of this course is to acquaint the student with the more common operative procedure in physiological investigation. The following operations are performed on the dog: Gastric, biliary, and pancreatic fistulae, Eck's operation, splenectomy, thyroidectomy, nephrectomy, pancreatotomy, gastroenterostomy, colectomy.

12. Pathological Physiology. (Third year students.)

One hour lecture and one hour recitation during the first semester.

Among the subjects discussed are: Disturbances in the digestive secretions, starvation, overeating, obesity, disturbances in the metabolism of carbohydrates, fats and proteins, qualitative changes in metabolism, production of organic acids, disturbances in the secretion of bile, alkaptonuria, cystinuria,

pathological alterations in blood pressure, exudates, metabolism in fever anaemia and other pathological conditions.

13. Dietics and Nutrition. (Third year students.)

One hour lecture and one hour recitation during second semester.

The lectures treat the following subjects: Specific dynamic action of the different foods, calorific requirements, construction of a diet from the different articles of food, nitrogenous equilibrium, nutrition during the period of growth, inorganic foods, some mineral waters, accessories to food, influence of mechanical work upon metabolism, diets in some pathological conditions.

14. Physiological Conference. (Elective.)

Those who are interested are invited to meet at times to be announced to discuss informally selected problems in physiology, usually such as supplement instruction given in other ways. Problems under investigation in the laboratory are introduced for discussion.

15. Original Investigation. (Elective.)

Those who are qualified are encouraged to undertake research work. A reading knowledge of French and German is desirable.

Reference Books—Physiology: (Freshman): Howell.
(Sophomore): Tigerstedt.

Pharmacology: Tyrode.

Physiological Dietetics: Lusk, "Science of Nutrition."

Pathological Physiology: Krehl, Pathological Physiology.

MATERIA MEDICA AND THERAPEUTICS

Professor, Frederick John Kruell, Ph.G., M.D.

Associate Professor, Reginald S. Petter, M.D.

Associate Professor, Edward Douglass Jones, M.D.

1. First and second year students will receive instruction in the physical, chemical and pharmaceutical properties of remedial agents, pharmacodynamics, medical pharmacy, and the elements of prescription writing.

Two hours each week will be devoted to the above studies throughout the college year.

2. Third and fourth year students are instructed in the principles of therapeutics, applied therapeutics, and advanced prescription writing from a therapeutic standpoint, dietetics, and the therapeutic management of special diseases.

Three hours each week throughout the college year are devoted to the above studies.

Text Books—Hare; Shoemaker; Stevens; Potter; Sollmann.

PATHOLOGY

Associate Professor, Andrew Fremont Wagner, A.M., M.D.

Instructor, Donald George Turnbull, M.D.

The complete course covers a period of three hundred sixty hours, extending through three full years, viz., Sophomore, Junior, and Senior, and consists of thorough didactic and laboratory work.

The didactic work consists of lectures, recitations and quizzes, with written examinations at stated periods, and the practical work consists of identification, study and drawing of microscopical specimens; the fixing, hardening, sectioning, staining and mounting of pathological tissues; the study of gross specimens, and the performance of autopsies at the County or other hospitals of this city.

The laboratories of the college are supplied with all the necessary equipments for instruction in this important branch of medicine, including a projectroscope, freezing, paraffin, and celloidin microtomes, Bausch and Lomb microscopes, etc., enabling the student to become familiar with all the routine work pertaining to this department.

Five courses are given:

1. **General Pathology.** This course is given to the Sophomore class throughout the entire year, and includes the subjects properly coming under this heading, viz., general causation of disease, circulatory disturbances, degenerations, inflammation, neoplasms, and parasitic diseases.

The didactic work is supplemented in the laboratory by the study of specimens, illustrating the pathologic conditions under discussion at the time in the lecture-room. As one subject after another is taken up systematically, the class is furnished by the department with specimens representing the particular lesions lectured on, which the students are required to study, and of which they make drawings. These drawings are taken into consideration in making up the final credits of each student. At the same time all the pathological material available is used in teaching the student to prepare, cut, stain and mount his own sections.

2. Special Pathology. This course is given to the Junior and Senior classes, thus giving the latter the benefit of a very thorough review of the whole subject of special Pathology as given in the Junior year. The various tissues and organs are taken up in order, and the pathological changes studied under general conditions before are now studied in their new relations and modifications.

3. Gross Pathology and Postmortem Work. This course is given to both Junior and Senior students, and consists of identification and study of diseased parts with the naked eye, and the various microscopical staining, and other reactions.

The technique of making autopsies is taught by demonstrations, and opportunity is afforded the students to assist in the performances of the work.

4. Postgraduate Course. This course will be given to post-graduates and others desiring to take up work along special lines in any department of pathology. In such a course may be included the work as outlined in Courses I, II and III, but with such limitations as to detail as will be necessitated by the amount of time available for the course.

Text Books: Stengel; Delafield and Prudden; Adams; Beattie and Dickson; Ziegler; Wells' Chemical Pathology.

BACTERIOLOGY

Associate Professor, Andrew Fremont Wagner, A.M., M.D.
Assistant, Dallas Case Ragland, M.D.

The whole subject of Bacteriology—general and special—is taught by lectures, quizzes, and laboratory instruction throughout the Sophomore year. A review is given in the Senior year.

1. The didactic work is thorough and complete, the first half of the course including the classification, physical and chemical structure of the bacteria in general, as well as the products of their biological activities, and particularly the antibodies, the opsonic substances, and the theories of infection and immunity relating to the various pathogenic micro-organisms, while the second half of the course covers the identification, the staining, cultural and other biologic characteristics of the various species of pathogenic bacteria, as well as of the pathogenic protozoa, yeasts and moulds.

2. The laboratory work is comprehensive, and aims to be as practical as possible. The student is made familiar with approved methods of technique by requiring him to actually perform the work done in bacteriological laboratories, from the preparation of staining fluids and of culture media to the cultivation and inoculation of the different organisms.

3. The review, by quizzing, of the subject in the Senior year enables the student about to graduate not only to refresh his memory in the details of this important department of the study of disease, but affords an opportunity of presenting to him any new facts that may be developed from year to year in this rapidly growing subject.

4. A course in Serology is given to both Junior and Senior classes and consists of lectures, quizzes and practical work in the laboratory. During the year the subject of immunity, with its various phases, is very thoroughly gone into and the methods of determining the opsonic index, preparation of autogenous bacterins, and the compliment fixation test, as

applied to the detection of syphilis by Wassermann and Nogouchi, are each explained and demonstrated. All serum reactions and tests at present in vogue for the detection of disease are demonstrated and taught, in so far as is consistent with the present consensus of medical opinion.

Text Books: Park's Pathogenic Bacteria and Protozoa; Jordan's General Bacteriology; Muir and Ritchie (107 Edition) and MacFarland's Pathogenic Bacteria.

MEDICINE

Professor, Thompson B. Wright, A.M., M.D.

Professor, Sylvester Gwaltney, A.M., M.D.

Associate Professor, Henry Herbert, M.D.

Associate Professor, Louis Weber, B. S., M.D.

Associate Professor, Charles C. Browning, M.D.

Assistant Professor, Edward William Hanlon, M.D.

Instructor, Earle M. Brown, B.S., M.D.

Instructor, Harvey Smith, M.D.

Instructor, William Elmer Carter, M.D.

Instructor, Francis Earl Brown, A.B., M.D.

1. During the Junior year a series of didactic lectures will be given, of a thoroughly practical nature, embracing a critical study of internal diseases generally, including diseases caused by parasites, infectious diseases, constitutional diseases, and the diseases grouped according to the organs affected, such as: Diseases of the lungs, heart and arteries, of the the liver, of the stomach and intestines, of the pancreas, of the kidneys and spleen and lymphatic system, of the blood and of ductless glands.

Especial attention will be given to the study of etiology, bacteriology, pathological signs and symptoms, diagnosis, prognosis, and treatment of each disease, and the lectures will be amply followed up and illustrated by patients drawn from the various clinics in connection with the College and

County Hospital; also by the use of pathological specimens from the College Museum, and by the use of suitable charts, etc.

The student will be given special instruction in the application of anatomical knowledge to the investigation of the disease, the methods of examining various organs and parts, to detect evidence of disease, the mode of employment of instruments and apparatus used in diagnosis, treatment prescribed, and applied therapeutics.

2. The Department of Physical Diagnosis has been incorporated with the Department of Medicine, and instruction in this branch is directly taught by an Associate Professor of Medicine, so that it can be more readily condensed with the other work in the department.

The mode of instruction in this Department of Medicine is based chiefly upon clinical, practical training at the bedside, comprising anamnesis, status presens, pathology, diagnosis and differential diagnosis. In the Junior year practical instruction is given twice a week at the Los Angeles County Hospital two hours each week, and one hour didactic lecture at the College.

For the proper conception of the abundant and interesting clinical material offered the Junior class, a proper training in auscultation and percussion is a condition sine qua non. Cases are brought before the class with a complete history taken by one of the students and then demonstrated and discussed.

During the year each student is required to furnish in writing three complete history reports of patients, and at the end of the year to pass an oral and practical examination at the bedside. This constitutes an essential item in the markings on final examinations.

3. During the Senior year clinical microscopy is taught by didactic and socratic instruction—together with practical demonstrations of the latest and best laboratory methods. This course comprises the most approved methods of examining the urine, chemical and microscopical examination of the blood, sputum, and gastric contents, as well as the morbid

products and secretions of disease, also the latest methods of serum diagnosis. The hospital service is utilized and the course so arranged that the student may receive the benefit of a personal examination of the patient in connection with laboratory work necessary for the elucidation of the case.

4. The Junior and Senior classes receive systematic instruction in the practice of medicine at the bedside. Ward and observation classes are formed, as these conference classes have proved a success and represent a great improvement over the old method of clinical lectures. Each case is carefully studied by the students, who prepare reports upon that portion of the case to which they have been assigned. These reports are read in class and discussed, after which the professor in charge draws attention to errors and directs the students in correctly interpreting the data collected. The conference closes with a brief review, during which important points are accentuated and peculiar ones noted.

Most excellent clinical facilities are afforded at the Los Angeles County Hospital with its 500 beds. The recent establishment of a regular visiting staff having absolute charge of the patients, opens up new opportunities for the close study and treatment of disease in this institution. Our students have constant access to the wards, giving them the opportunity to obtain at first hand that knowledge of disease which can only be acquired through intimate contact with the patient.

Each student is required to submit complete case reports on a number of cases during the year.

5. Tropical Medicine is taught in the Senior year and comprises one recitation weekly.

Recognizing that a knowledge of natural history is essential to a thorough understanding of the causative factors in the production of tropical diseases, the student is taught to construct analytic outlines of the various parasites and their associated diseases, special attention is given to the etiology, pathology, symptomatology, diagnosis, prognosis and treatment, and the most approved methods of prophylaxis.

During the year clinical instruction in tropical diseases is given at the County Hospital.

Text Books—Diagnosis: Osler; Butler; Anders; Emerson; Boston; Cabot's Diseases of the Blood; Todd's Manual of Clinical Diagnosis; DaCosta.

Practice: Anders; Osler; Kelly; Tyson; Manson; Jackson.

Collateral Reading and Reference: Krehl's Pathological Physiology; Hammarstein's Physiological Chemistry; Cushney's Pharmacology; Potter's Materia Medica and Therapeutics.

PEDIATRICS

Professor, Francis Oliver Yost, M.D.

The course in diseases of children consists of lectures, recitations and clinics, during the third and four years. In the lectures special attention is devoted to the subject of infant feeding, and the infectious diseases of childhood. The clinical course familiarizes the student with the symptomatology of the common diseases of children.

In the recitations a special effort is made to impress the practical points of diagnosis and treatment.

Text Book: Holt.

Collateral Reading: Koplik; Rotch; Jacobi; Cotton; Fischer; Corlett; Graetzer; Ruhrah; Kerr; Kerleys; Pfaundler and Schlossman.

SURGERY

Professor, James Harvey Seymour, M.D.

Professor, Orville O. Witherbee, M.D.

Associate Professor, John Jay Still, M.D.

This department embraces didactic and clinical instruction, extends throughout the Sophomore, Junior and Senior years, and consists of four courses.

1. **Minor Surgery**, the art of bandaging, the application of surgical dressing and the use of anaesthetics are taught, two hours per week, during the Sophomore year.

2. **Fractures and Dislocations** is taught one hour per week in the Junior class.

3. **Orthopedic Surgery** is given throughout the Junior and Senior years, and consists of one hour per week, didactic work, with extensive clinical demonstration.

4. Three hours per week, didactic work at the College four hours per week, clinical work at the County Hospital, and daily clinics at both the College Dispensary and Down Town Clinic are given throughout the Junior and Senior years in Surgery. In the Junior year the principles underlying surgical procedures and governing surgical diseases, together with a thorough grounding in surgical pathology, are considered. Clinical instruction is begun by the Junior student and he is given ample opportunity to witness all the major and minor operations. Many opportunities are afforded the Senior Class to witness, at close range, operations in the many hospitals with which Los Angeles is so bountifully provided. Every effort indeed is made to familiarize the student with the practical application and modern surgical procedures, to the end that he may be fully equipped to meet any and all emergencies within the domain of surgery.

Text Books: DaCosta; Wyeth; Lexer-Bevan; Scudder's Treatment of Fractures; Stimson on Fractures and Dislocations.

Operative Surgery: Bryant; Bickham; Treaves.

Minor Surgery: Foote.

GYNECOLOGY AND ABDOMINAL SURGERY

Professor, Charles William Bryson, A.B., M.D.

Associate Professor, William Harriman Jones, A.B., M.D.

Lecturer, Henry E. Southworth, M.D.

Instruction in this department will be didactic and clinical, comprising lectures, recitations, quizzes, dispensary and hospital clinics, and minor and major operations, before members

of the Junior and Senior classes, and will continue throughout the Junior and Senior years. In the Clinical Department students will be divided into small classes, the better to enable them to witness closely the technique of all operations.

Students will be required to examine, diagnose and treat patients in the presence of the professor in charge, in order to become proficient in gynecological diagnosis and treatment. In thus bringing the student in close personal relation with a large number and variety of cases, he familiarizes himself with the different methods of examining patients, and at the same time he becomes accustomed to making diagnoses and formulating treatment, as well as witnessing closely and assisting at all of the minor and major operations in gynecology and abdominal surgery. Diseases of the bladder and urethra will be thoroughly covered in this department and their medical and surgical treatment outlined and demonstrated. Methods of inspection and examination will be taught by the use of charts and manikins, as well as upon the living subjects. The practical manipulation and use of the cystoscope will be shown first upon bladder phantoms, then upon the living subject in the Clinical Department. A thorough theoretical as well as practical knowledge of gynecology and abdominal surgery in its broadest scope is a prerequisite to graduation from this College, and every opportunity will be afforded the student to prepare himself for the arduous duties that will come to him in his professional career.

Text Books: Dudley; Gilliam; Montgomery; Ashton; Reed; Penrose; Hirst; Possi; Byford; Garrigues; Crossen; Kelly's Operative Gynecology; Surgical Diseases of Abdomen, by Douglas; Abdominal Operations, by Monynihan.

OBSTETRICS

Professor, Walter Sydney Johnson, A.B., M.D.

1. Instruction in Obstetrics is begun in the third year, and is carried on by means of didactic lectures, recitations and demonstrations, upon the manikin and living subject; by the use of charts, wet and dry specimens, models and pelves.

The subject matter during this year embraces the anatomy of the pelvis, physiology, and development of the ovum, normal pregnancy, normal labor and normal puerpery.

Two hours a week are given to lectures and recitations throughout this year.

2. Lectures and recitations are continued during the fourth year, at which time the complications and difficulties liable to be encountered in the practice of the science and art of obstetrics are successively considered, viz., abnormal pregnancy, dystocia, and abnormal puerpery.

Special attention is given to asepsis, external palpation, pelvimetry, the use of forceps, and the different obstetric operations.

Students during this year, in addition to the above, are expected to attend one or more cases of labor, under the supervision of the Professor of Obstetrics. The maternity wards of the County Hospital and the many charitable cases coming under the care of this department afford ample material for practical demonstration, thus giving the student a thorough working knowledge of the subject.

Text Books: Williams; Edgar; American Text Book; Hirst; Wright.

OPHTHALMOLOGY

Professor, Thomas Jefferson McCoy, M.D.

Associate Professor, George Washington McCoy, A.M., M.D.

This course on diseases of the eye will consist of one didactic and two clinical lectures each week, giving practical instructions on the eye in general, the recognition, differentiation and treatment of the common, as well as the complicated diseases and injuries, teaching the recognition of diseases in the eye as diagnostic of disease in remote organs, the principles and the use of the ophthalmoscope and clinical instructions on refraction. Ample material is available at the hospitals, college and outdoor clinics.

Text Books: May; Fox; Jackson; De Schweinitz; Ball or Fuchs.

OTOLOGY, LARYNGOLOGY AND RHINOLOGY

Professor, William Leander Zuill, M.D.*

Associate-Professor, George Jesse Lund, M. D.

This subject is taught by lectures, recitations, reviews and clinical instructions, consisting of two hours per week of diadactic work and three hours per week of clinical work in the College Dispensary, Down Town Clinic and County Hospital.

This course of special work comprises the latest and most modern methods in technique, and particular pains are taken to make the student perfectly familiar with the practical side of the diseases of these organs as presented in our regular clinics at the College Dispensary, Down Town Clinic and County Hospital.

Special attention is given: First—To the Anatomy and Physiology of the Ear, Nose and Throat, and Accessory Sinuses. Second—Methods of Examination. Third—General pathological conditions. Fourth—Special diseases of the organs. Fifth—Diseases of Accessory Cavities. Sixth—Neoplasms. Seventh—Operations.

Text Books: Bishop, on Diseases of Nose, Throat and Ear, third edition; Kyle, Diseases of Nose and Throat; Coakley, on Diseases of Nose and Throat.

NERVOUS AND MENTAL DISEASES

Professor, James Tucker Fisher, M.D.

Assistant Professor, Thomas James Cummins, M.D.

The course in Neurology, Phychiatry and Neuro-Pathology consists of lectures and clinics at the College Dispensary, Down Town Clinic, County Hospital and Soldiers' Home each week during the third and fourth years.

The clinical course familiarizes the student with the common disturbances of the nervous system and some of the more important mental diseases.

The detention of the insane at the County Hospital, before commitment to the State Hospital for the insane, allows the student to see many forms of insanity.

Text Books: Dana; Starr; Mettler; Outlines of Psychiatry by William A. White.

STATE MEDICINE AND HYGIENE

Lecturer, H. Wilson Levengood, M.D.

Two hours each week during the Junior and Senior year will be devoted to instruction in this important branch of medicine. Hygiene as applied to preservation of health and prevention of disease will be thoroughly illustrated, especial attention being given to the pure food law, state, national and interstate control of pure foods and drugs, adulterations, dilutions, labeling, etc.

School-room and military (camp) hygiene will receive especial consideration.

A full course in hygiene of air, soil, water, climate, food and diet; food supply, food diseases and adulterations; heating, lighting and ventilating of dwellings; municipal sanitation and water supply, sewage and drainage, disposal of refuse; in fact, every department in connection with preventive medicine and sanitary laws, will be given.

Text Books: Parkes; Egbert; Bergy.

ELECTRO-THERAPEUTICS

Instructor, Louis Weber, B.S., M.D.

Lectures will be delivered and recitations held during the Junior and Senior years covering the history of electricity, the different currents in use, and their application to practical therapeutics. The ground covered shall comprise knowledge of apparatus, currents employed, and technique of treatments, electro-diagnosis, magnetism, Roentgen rays, light and high-frequency therapy, and other allied subjects.

The latest electrical apparatus for practical clinical demonstration of all forms of electricity has been installed.

Text Books: Rockwell's Medical and Surgical Electricity; Massey's Treatment of Diseases by Galvanic and Faradic Electricity; Pussey's Caldwell on Roentgen Rays in Therapeutics and Diagnosis; Moneil's Static Electricity and X-Ray for Therapeutic Use.

GENITO-URINARY DISEASES

Associate Professor, Warren Nichols Horton, M.D.

This course comprises a series of lectures and clinical demonstrations throughout the Senior year, and is limited to Senior students.

In the didactic course, the anatomy, histology, embryology and physiology of the entire genito-urinary tract is reviewed, such time being spent on this as to insure a thorough knowledge of the fundamental principle of this subject, and then the diseases of the various organs are taken up separately, special attention being given to the pathological changes and their diagnosis.

The operative procedures are taught on the cadaver, and the students are required to go through the various steps of each operation under the guidance of the instructor.

The diagnosis is gone into with each pathological condition as it is being studied, but preliminary to this, special instruction is given in palpation and percussion and various other methods pertaining to genito-urinary diseases in general, individual instruction being given in the use of the cystoscope, urethroscope and catheterising ureters, etc.

These lectures will be illustrated by a series of clinical demonstrations upon material from the College Clinic and at the County Hospital.

No one text book is followed in the course, but the students of the branch are recommended to buy various texts, and thereby the class has the advantage of the different authors writing on this subject.

Works recommended: Casper; Kreissel; Fynger; Corner; Keyes; White and Martin; Morrow's System; Deaver's Diseases of the Prostate Gland; and various texts on Anat-

omy, Histology and Embryology used in other departments of the school.

DERMATOLOGY

Associate Professor, Anstruther Davidson, C.M., M.B., M.D.

Dermatology, embracing within its scope Syphilography, has been taken from the Department of Genito-Urinary Diseases and placed in a separate department.

This course embraces one hour each week throughout the Senior year. The subject matter covered will be the histopathology and bacteriology of the skin, relations of diseases of the skin to other diseases and to other organs, embracing also patho- and radio-therapy, disorders of the glandular system, inflammations, hemorrhages, atrophies and hypertrophies, new growths, neuroses, parasitic affections, etc., etc., will be taken up, and the latest methods in etiology, diagnosis and treatment will be carefully outlined.

Syphilis, its effects, direct and remote, upon healthy and diseased organs, together with the most modern methods of diagnosis and treatment, will be covered thoroughly during the year.

Text Books: Lydston; Jackson; Stellwagon.

MEDICAL JURISPRUDENCE

Lectures will be given on the following subjects: Legal relations of physician to patient and patient to physician, including rights to compensation, collection of fees, malpractice; legal relations of physician to government, including government regulation of practice, power to protect public health, nuisances and their abatement, adulteration of foods; elementary general principles of law, knowledge of which frequently is required by and useful to physicians, including wills, estates of insane and deceased persons, crimes of violence, rights of children, negligence; legal aspects of mental disorders and diseases, including testamentary capacity, criminal responsibility of insane, alcoholism and drug addictions, legal incompetency to contract, care for and custody of insane;

property rights of insane; personal injuries by violence (a) in civil damage cases, and (b) in criminal cases, including rules of evidence, medico-legal inspection, autopsies (a) to ascertain cause of death, and (b) to obtain evidence of manner of infliction, suicide; toxicology, sex perversions, pregnancy, disease and divorce; life and accident insurance; expert and opinion evidence, including the medical witness, his position, rights and duties.

Efforts will be made in this department to familiarize students with the proper methods of practice and procedure in all matters wherein the practitioner of medicine is likely to come in contact with the law or the governments, and especially in that large class of cases where accurate knowledge of legal requirements is called for upon the instant. The lack of such knowledge frequently has enacted great embarrassment, both to the courts and to the medical profession.

Text Books: Taylor; Witthaus and Becker, Forensic and Medicine Toxicology.

HISTORY OF MEDICINE AND MEDICAL BIBLIOGRAPHY

Lecturer, Peter C. Remondino, M.D.

Dr. P. C. Remondino delivered, during the session of 1910-11, a series of lectures to the entire student body upon that most interesting and instructive topic, History of Medicine and Medical Bibliography. This subject has been added to and made a part of the curriculum of this College. Dr. Remondino has been selected to present this course, he being a man of finished scholarly attainments, and his inherent ability, together with his broad and comprehensive knowledge of this subject, the results of a lifelong study and research into the seemingly impenetrable mysteries of the history of medicine, is an evidence of his peculiar fitness to make this course interesting and instructive. Dr. Remondino will endeavor to make this course an epitome of the general History of Medicine, taking up probably first the history of Aboriginal Medicine, then the Egyptian and Hindoo periods,

to be followed by the Ante-Hippocratic Greek medical period. Then will follow the Hippocratic and Alexandrian, the Roman and the Arabian, with the period of renaissance in Europe in the Sixteenth Century. In fact, a review of Medicine from the earliest possible obtainable history down to and including the present, will be given.

The above outline of the course will suffice to call the attention of the student along these lines to the opportunities offered here in this too oft neglected department. We believe that the broad-minded, up-to-date medical man should know at least something of the history of his profession.

COLLEGE OF LAW

CALENDAR

1911-1912

Sept. 11-16.....	Entrance Examinations.
Sept. 18-19.....	Registration for first semester.
Sept. 20.....	Instruction begins.
Nov. 30.....	Thanksgiving vacation.
Dec. 18.....	Christmas vacatinn begins.

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Jan. 2.....	Christmas vacation ends.
Feb. 1-3.....	Mid-year examinations and registration for second semester.
Feb. 5.....	Second semester begins.
Feb. 22.....	Washington's birthday.
May 30-June 12.....	Final examinations.
June 13.....	Commencement.

The College of Law, University of Southern California, is a member of the Association of American Law Schools.

ADMISSION TO FRESHMAN CLASS

Applicants for admission to the Freshman year must be at least 18 years of age; must furnish two certificates of good moral character; and must pass satisfactory examinations as hereinafter prescribed, unless otherwise qualified to be admitted.

Graduates of high schools maintaining a four years' course of study or other educational institutions whose course is

equivalent to such a high school course, are admitted without examination. Certificates of graduation should be presented.

Other applicants are required to pass satisfactory examinations in each of the subjects of one of the regular four-year high school courses.

In special cases the Dean has authority to admit as a special student an applicant who has not the required educational qualifications. Such admission, however, is conditional upon the applicant making up such deficiency before he enters the Senior year.

ADMISSION TO ADVANCED STANDING

Applicants for admission to the Junior or Senior classes must present certificates of the completion by them of work equivalent to that for which they seek to be credited. Certificates will be accepted when issued by a law school belonging to the Association of American Law Schools, or other colleges of law whose requirements are as high and whose course is as extensive as that here given. Applicants for advanced standing not having such certificates must pass examination in the subjects for which they seek credit, but any student who desires to take such an examination must first secure permission to do so from the Dean.

Such examinations are given only at the beginning of a semester. A charge of two dollars is made for each special examination.

The school reserves the right to reject any applicant.

Any student displaying a deficiency in English and diction may at any time be required to take instruction in the class of Expression.

The school reserves the right to expel any student whenever the Board of Control deems it necessary for the welfare of the Law School, and to suspend any student or use other methods of discipline, whenever deemed advisable by the Dean.

The school also reserves the right to refuse to register any applicant or student.

SPECIAL EXAMINATIONS

Any student taking the regular course who desires to omit class attendance on any subject and to take a special examination thereon, shall file in the office a petition asking for the privilege and stating the student's reason therefor. The petition is referred to the Dean. If the permission is granted, a special examination may be given. Such examinations and all examinations for advanced standing, are given at the beginning of a semester, and are passed upon by the instructor teaching the subject. Passing grade upon all such examinations is 85%.

COURSE OF INSTRUCTION

The method of instruction is a combination of the lecture, text-book and case systems, with practical experience in briefing and pleading.

The purpose of this college is to impart a sound and thorough legal education and to qualify students for admission to practice in all the courts not only of this, but of any other state, and in the Federal Courts.

Attention is called to the fact that courses are given in Briefing and the Use of Books. In addition to the briefs required in Moot Court work, the members of the Faculty assign subjects for briefs in connection with their respective classes.

The course of study, covering a period of three years, leads to the degree of LL.B.

The Graduate course of one year leads to the degree of LL.M.

All regular students of the law department are entitled to four hours of instruction per week in the College of Liberal Arts without additional cost.

THE DEGREES OF A.B. AND LL.B.

When a student in the College of Liberal Arts has received 94 semester credits (including all prescribed work) and of these has taken not less than 72 in the College of Liberal Arts

of the University of Southern California, he may enter the College of Law, and may receive the degree of Bachelor of Arts upon the satisfactory completion of two years in the professional course.

PRE-LEGAL COURSE

It is important that the student be thoroughly prepared before commencing the study of Law. It is, therefore, recommended that he take the three years in the College of Liberal Arts before entering the College of Law. Special consideration should be given to the following subjects: English (including Expression), Latin (at least two years if not covered by entrance credits); History (English and American), with special reference to Institutional and Constitutional; Logic, Philosophy, Economics and Political Science.

ADMISSION TO THE BAR

Graduates of the University of Southern California, College of Law, are admitted to the bar upon motion and without examination.

SCHOLARSHIP CONTESTS

A scholarship is given to that member of the High School Graduating Class of 1911 writing the best thesis. Full information concerning this contest may be secured by addressing the Law School.

ALUMNI MEDAL

This prize is an unusually elaborate gold medal, which is presented each year at commencement to that member of the graduating class who shall have maintained the highest general average in scholarship throughout the whole College course. This medal was awarded in 1910 to Chas. L. Bagley.

DEBATING CLUBS

The Freshman Debating Classes are under the supervision of the College, and attendance at seventy per cent of the meetings is compulsory on all regular students of the Freshman Class. The Dean of the College of Oratory directs the work.

The Lyceum is a club having a restricted membership, and is composed of members of the Junior and Senior Classes.

A debating contest in which all regular students are eligible to participate, is conducted each year. Those securing first, second and third places receive handsomely engraved certificates and make up the First Debating Team to represent the College of Law in contests with other institutions. The subject of the try-out debate for the year 1910 to 1911 was:

“Resolved, that band deposits should be quaranteed by the State Government, constitutionality of the legislation providing therefore being conceded.” It was held December 12th, 13th, 14th and 15th, 1910.

ORATORICAL ASSOCIATION

The Law School Oratorical Association is organized for the purpose of stimulating interest in oratory.

Occidental College, Pomona College, Whittier College and the University of Southern California compose an Oratorical Association. Students of the Law Department are eligible as representatives of the University in the contests.

A cash prize of \$75 is awarded the winner of the local try-out; \$15 is awarded the contestant taking second place, and \$10 is given the one taking third place.

A contest is also held between representatives of the same Colleges, called the Peace Oratorical Contest. A cash prize of \$100 is awarded the winner of the Inter-Collegiate event.

FRATERNITIES

The two legal fraternities, Phi Delta Phi and Delta Chi, have chapters here.

A petition has been filed for a chapter of the Phi Alpha Delta fraternity.

ATHLETICS

Regular students of the Junior and Senior years of the College of Law take part in all Inter-Collegiate athletic events. The Law School has separate baseball, basketball and football teams. Although athletics have not been established long in the Law School, during the past year our teams have ranked with the best representatives of the other colleges of Southern California. It is expected that during the coming year much progress will be made in this department.

FEEES AND EXPENSES

An entrance fee of \$10.00 is required upon registering.

Tuition fees for the day school are \$42.50 per semester.

Tuition fees for the Night School are, for the Freshman year, \$25.00 per semester, and for the last three years of the Night School \$35.00 per semester.

The student body assessment is \$2.00 per semester, and is paid upon registration.

Failure to pay fees when due debars from the class room. Students who are compelled to withdraw from school on account of sickness, will have a part of their tuition refunded upon application.

Address all communications to

FRANK M. PORTER, Dean,

College of Law, University of Southern California,

Exchange Bldg., Los Angeles, Cal.

CURRICULUM

In addition to the following, special lectures are provided during the year upon subjects which though not really required in a legal course, are yet of much value to those desiring a well rounded knowledge of the law.

Unless otherwise specified the method of instruction is by text-book and selected cases.

On account of the large number of students enrolled, the classes are divided into several sections. These meet at different times of the day so that students may select a section to suit their own convenience.

The duration of each period specified below is one and one-half hours.

FIRST YEAR

First Semester

Contracts (Two Periods).....	Clair E. Tappaan
Criminal Law (Two Periods).....	Vincent Morgan
.....	Percy V. Hammon
Elementary Law and Blackstone (Three Periods).....	
.....	Gavin W. Craig
Torts (Two Periods).....	Kemper B. Campbell
Bailments (Two Periods).....	Frank M. Porter
Use of Books.....	T. W. Robinson

Second Semester

Contracts (One Period).....	Clair S. Tappaan
Criminal Procedure (Penal Code and Selected Cases (One Period)	Frank R. Willis and Percy V. Hammon
Torts (Two Periods).....	Kemper B. Campbell
Personal Property (Two Periods).....	Frank M. Porter
Negligence (One Period).....	Wm. P. James
Agency (One Period).....	Lewis A. Groff
Moot Court (One Period).	

SECOND YEAR**First Semester**

Wills (Two Periods).....	Frank M. Porter
Common Law Pleading (Two Periods).....	H. C. Dillon
Private Corporations (One Period).....	Frederick W. Houser
Real Property (Two Periods).....	Gavin W. Craig
Briefing.....	T. W. Robinson
Equity Jurisprudence (Two Periods)....	Chas. C. Montgomery
Constitutional Law (One Period).....	W. A. Cheney
Moot Court (One Period).	

Second Semester

Private Corporations (One Period).....	Frederick W. Houser
Equity Jurisprudence (Two Periods)....	Chas. C. Montgomery
Real Property (Two Periods).....	Gavin W. Craig
Commercial Paper (Two Periods).....	Clair P. Tappaan
Partnership (One Period).....	Clair S. Tappaan
Justice Court Practice, Code of Civil Procedure of California and Lectures (One Period, Part of Semester).....	Albert Lee Stephens
Patents (Lectures, One Period, Part of Semester).....	James R. Townsend
Statutory Interpretation (One Period).....	T. W. Robinson
Constitutional Law (One Period).....	W. A. Cheney
Lectures and Selected Cases (One Period).	
Water Rights and Irrigation Law (One Period).....	Gavin W. Craig
Guaranty and Suretyship (One Period, part of Semester).....	Wm. W. Phelps
Moot Court (One Period).	

THIRD YEAR**First Semester**

Code Pleading (Two Periods).....	James G. Scarborough
Evidence (Three Periods).....	Frank M. Porter
Public Corporations (Two Periods).....	Walter F. Haas
Equity Pleading (One Period).....	Chas. C. Montgomery
Mining Law (One Period).....	Lewis A. Groff
Legal Ethics (Lectures).....	John D. Pope
Insurance Law (Twelve Lectures).....	Seward A. Simons
Moot Court (One Period).	

Second Semester

Code Pleading (Code Civil Procedure and Text Book, Two Periods).....	James G. Scarborough
Real Property (Three Periods).....	Gavin W. Craig
Evidence (Three Periods).....	Frank M. Porter
Damages (One Period).....	Kemper B. Campbell
Federal Procedure (One Period).....	Chas. C. Montgomery
Bankruptcy (Five Lectures).....	W. T. Craig
California Lien Law (Five Lectures).....	Frank James
Appeals (Three Lectures).	
Admiralty (Eight Lectures).....	E. W. Tuttle
Underground Waters (Three Lectures).....	George H. Hutton
Moot Court (One Period).	

NIGHT SCHOOL

In response to a general demand for night classes in law, a Night School was established at the beginning of the year 1908-1909. The night course consists of the same subjects as the day course, but requires four years for completion. The instructors are the same as those of the Day School. Students may take as many or as few subjects as they desire, and one may complete the course by taking two years in Night School, two Summer Schools, and the third year with the regular day Senior Class. Graduates of the Night School receive the degree of Bachelor of Laws (LL.B), and under the laws of the State of California are admitted to the Bar without examination.

CURRICULUM OF NIGHT SCHOOL**FIRST YEAR****First Semester**

Contracts (Two Periods).....	Clair S. Tappaan
Criminal Law (Two Periods).....	Vincent Morgan
Elementary Law and Blackstone (Two Periods).....	
.....	Gavin W. Craig
Torts (One Period).....	Kemper B. Campbell
Agency (One Period).....	Lewis A. Groff

Second Semester

Contracts (One Period).....	Clair S. Tappaan
Criminal Procedure (One Period).....	Frank R. Willis
Elementary Law and Blackstone (Two Periods).....	
.....	Gavin W. Craig
Torts (Two Periods).....	Kemper B. Campbell
Bailments and Carriers (Two Periods).....	Frank M. Poster

SECOND YEAR**First Semester**

Negligence (One Period).....	William P. James
Private Corporations (One Period).....	Frederick W. Houser
Water Rights and Irrigation Law (One Period).....	
.....	Gavin W. Craig
Wills and Probate Law (Two Periods).....	Frank M. Porter
Justice Court Practice (One Period, Part of Semester)....	
.....	Albert Lee Stephens
Patents (One Period, Part of Semester)....	James R. Townsend
Use of Books (One Period, Part of Semester).....	
.....	T. W. Robinson

Second Semester

Personal Property (One Period).....	Frank M. Porter
Commercial Paper (Two Periods).....	Clair S. Tappaan
Partnership (One Period).....	Clair S. Tappaan
Statutory Interpretation (One Period).....	T. W. Robinson
Common Law Pleading (Two Periods).....	H. C. Dillon
Private Corporations (One Period).....	Frederick W. Houser

THIRD YEAR**First Semester**

Domestic Relations (Two Periods).....	Vincent Morgan
Evidence (Three Periods).....	Frank M. Porter
Real Property (Two Periods).....	Gavin W. Craig
Equity Jurisprudence (One Period).....	Chas. C. Montgomery

Second Semester

Real Property (Two Periods).....	Gavin W. Craig
Evidence (Three Periods).....	Frank M. Porter
Equity Jurisprudence (Two Periods)....	Chas. C. Montgomery
Bankruptcy (One Period, Part of Semester).....	W. T. Craig

FOURTH YEAR**First Semester**

Code Pleading (Two Periods).....	James C. Scarborough
Mining Law (One Period).....	Lewis A. Groff
Public Corporations (Two Periods).....	Walter F. Haas
Insurance (Twelve Lectures).....	Seward A. Simons
Guaranty and Suretyship (One Period).....	Wm. N. Phelps

Second Semester

Code Pleading (Two Periods).....	James G. Scarborough
Senior Real Property (Three Periods).....	Gavin W. Craig
Equity Pleading (One Period).....	Chas. C. Montgomery
Damages (One Period).....	Kemper B. Campbell
Legal Ethics (Three Lectures).....	John D. Pope
California Lien Law (Five Lectures).....	Frank James
Appeals (Three Lectures).	
Admiralty (Eight Lectures).....	H. C. Dillon

GRADUATE COURSE

A Graduate course of one year is given. The degree of Master of Laws (LL.M) is conferred upon those who have previously received the degree of Bachelor of Laws (LL.B.) from any Law School which is a member of the Association of American Law Schools or from any other approved Law School maintaining a three-year undergraduate course, on completion of an approved course of graduate study equivalent to ten yearly periods.

The following is the course of study leading to the degree of Master of Laws (LL.M.):

Trusts (Sixteen Lectures).....	William W. Phelps
International Law (One Period).....	Willoughby Rodman
Spanish and Mexican Land and Mining Law (Twelve Lectures).....	Warren E. Lloyd
Contracts in Restraint of Trade (Twelve Lectures).....	
.....	Wm. J. Hunsaker

Interstate Commerce (Twelve Lectures).....	E. W. Camp
Codification (Twelve Lectures).....	William W. Phelps
Extraordinary Legal Remedies (Sixteen Lectures).....	
.....	Curtis D. Wilbur
Public Officers (Ten Lectures).....	Walter F. Haas
Conflict of Laws (Thirty Lectures).....	E. W. Tuttle
Mortgages (Four Lectures).....	J. W. Swanwick
Logic (One Period).....	James Harmon Hoose
Fraternal Insurance (Six Lectures).....	Carlos S. Hardy
Trusts and Monopolies (Eight Lectures).....	Arthur P. Will
Treaties (Six Lectures).....	Arthur P. Will
Medical Jurisprudence (Ten Lectures).....	Carlos S. Hardy

ATTENDANCE AND SCHOLARSHIP

Attendance at ninety per cent. of the lectures and recitations is required for promotion or graduation.

Examinations are given at the end of each semester. A grade of seventy-five per cent. on examination and daily work, in each subject, is required for promotion or graduation.

Persons who are not studying for a degree may enter the College of Law at any time as special students and may pursue such studies as they desire. This provision is made especially for the aid of those seeking or holding positions of trust in banks and other business institutions.

PUBLIC SPEAKING, VOICE BUILDING AND EXPRESSION

A course in Public Speaking, Voice Building and Expression is offered by Miss Beulah Wright, Dean of the College of Oratory, University of Southern California.

The course is designed to meet the needs of the students of the Department of Law. The work is of the most practical character.

It is the aim to teach a student to be simple and natural in his expression and when occasion shall demand, powerful but at all times to preserve his individuality. A great deal of

stress is laid upon the development of the voice for purity, flexibility, and control.

Most of the work done in classes is of an extemporaneous nature, such as short talks on current public questions, argumentation and debate. Attention is also given to the study and delivery of great orations, as well as the preparation of original orations.

Students doing work in these classes may receive credit in the College of Oratory to apply upon either the Diploma Course or the Certificate Course. It is possible for a student to complete one of these courses during his three years' work in the College of Law.

SUMMER COURSE

During each summer school is conducted in a limited number of subjects which are taught by the regular teachers. During the summer 1911 the subjects will be as follows:

Senior Real Property.	Wills and Probate Law.
Bailments and Carriers.	Equity Pleading.
Criminal Law.	Partnership.
Common Law Pleading.	

The Summer School lasts about nine weeks. In Summer School the student does not study more than one or two subjects at a time. It affords an opportunity for those who expect to earn a part, or all, of their expenses while going through school to lessen the amount of study required for the following year. It furnishes an opportunity for those who have failed in any subject to make it up, and it also provides those who are irregular because of having taken a part of their course in some other Law School, or for any other reason, a way to make up back work.

Tuition for Summer School is charged by the subject. Most students take two subjects, for which the entire charge is from \$15.00 to \$20.00. This is not deducted from the regular tuition.

COURTS

The Supreme Court of the State holds two sessions each year in Los Angeles, and the students have opportunity to hear carefully prepared arguments by the ablest lawyers of the country, and are required to attend Court not less than ten days each semester.

The United States Circuit and District Courts are held here and opportunity for study of the Federal practice and procedure is thus offered, on both law and equity sides.

The Appellate Court for the Southern District of California holds its session in Los Angeles.

The Superior Court of Los Angeles County, consisting of twelve departments, is in session the entire year.

Four city Police Courts and four Township Justice's Courts, in which students in the Middle and Senior years can get some actual practice before admission to the bar, are in session daily during the entire year.

LIBRARY

Students are allowed the use of the Los Angeles County Law Library, consisting of twenty thousand (20,000) volumes, upon the same terms as members of the bar.

The College of Law has a good working library of its own, consisting of State Reports, the Reporter System, Text and other case books, numbering in all 3,000 volumes.

MOOT COURTS

Students of the Freshman Class in the second semester, and members of the second and third year classes, are assigned not less than two cases during each semester, which they are required to conduct through the Superior Court, and one of which must be taken up on appeal through the Appellate or Supreme Courts. Controversies are arranged and assigned upon statements of facts for trial.

All of the steps incident to a contested trial are taken, including preparation of pleadings, argument of motions and

demurrers, preparation of briefs, taking of depositions, impanelling of jury, challenges, introductions of evidence, argument of case, etc.

Students of the First and Second years act as witnesses, client and jurors. These trials are presided over by a member of the Faculty and are conducted as nearly as possible in the same manner as trials in actual courts. Each student in the First and Second years must write at least three briefs which are examined and graded by the Judge of the Moot Court.

The Moot Courts consist of the Justice's Court, Superior Court, the Court of Appeal and the Supreme Court. The procedure conforms to that of the State of California with pleadings under the Code. Sessions of the courts are held weekly. A student acts as clerk of the Moot Court, and is at the Law School throughout the day.

Such a course of practical training is of inestimable value to one who intends to locate in California, or in any of the Western Code states.

Those desiring further information relative to the College of Law may obtain it by writing for its special announcement.

COLLEGE OF DENTISTRY

CALENDAR 1911-1912

- October 3Tuesday, Opening exercise in main
lecture room, 8 p. m.
- October 4Wednesday, Lecture Sesion begins.
- October 14Friday, Registration of Students
closed for Lecture Session of
1910-1911.
- November 29Wednesday, Thanksgiving recess
begins 6 p. m.
- December 4Monday, Thanksgiving recess ends
8 a. m.
- December 22Friday, Christmas recess begins 6
p. m.
- January 2Tuesday, Christmas recess ends 8
a. m.
- February 22Thursday, Washington's Birthday
recess.
- May 15Freshman and Junior Examina-
tions begin.
- June 13.....Commencement Exercises.

SCHEDULE OF STUDIES

Freshman Year. Anatomy, dissecting, physiology, chemistry, chemical laboratory, dental anatomy, comparative anatomy, operative technics, prosthetic technics, crown and bridge technics, histology general, histology dental.

Junior Year. Anatomy, dissecting physiology, chemistry, organic, metallurgy, general pathology, materia medica, children's teeth; crown and bridge, porcelain, prosthetic dentistry, prosthetic technics, crown and bridge technics, orthodontia technics.

Senior Year. Operative dentistry, prosthetic dentistry, oral surgery, bacteriology, dental pathology, dental materia medica and therapeutics, jurisprudence, ethics and hygiene, children's teeth, anaesthesia and extracting, porcelain.

CONDITIONS OF ADMISSION

Special Notice to Students

Extracts from Code of Rules of the National Association of Dental College Faculties:

"No college of this Association shall give credit for a full course to students admitted later than ten days after the opening day of the session, as published in the announcement."

In case one is prevented by sickness, properly certified to by a reputable practicing physician, from complying with the foregoing rule, the time of admission shall not be later than twenty days from the opening day.

Candidates for admission will not be permitted to matriculate for any session other than that immediately succeeding the date of matriculation.

For matriculation in the Freshman class without examination the candidate must have 16 units in subjects representing High School work. Applicants may be admitted upon 12 units, provided that the 4 additional units shall be made up before entrance upon the second year of the course.

Prospective students who have not these preliminary requirements, and those who are studying with a view to taking up the profession of dentistry, will be advised by the Dean as to the most advantageous course to elect.

In lieu of such units the applicant will be required to pass a matriculate examination, which shall be the equivalent of that forming the basis of the certificate of required preliminary education.

No student can be received who is not present within ten days after the opening day as announced in the Bulletin, except in cases of sickness, when ten days additional time will be allowed.

Admission to Advanced Standing

Extracts from rules of the National Association:

That advanced standing in the classes of members of this Association shall not be given to students except in the following instances:

First—Where a student shall have taken a full Freshman or Junior course in a dental school of this Association, or one especially recognized, he is entitled to enter the Junior or Senior year, or graduates from a reputable medical college, may enter the Junior year.

Colleges of the Association "may receive into the Junior and Senior classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years respectively; this certificate is to be a pledge to any college to which they may apply that a previous year has been spent in the institution from whence they came."

Requirements for Graduation

1. The candidate for the degree of Doctor of Dental Surgery shall be at least twenty-one years of age and of good moral character.

2. He shall have attended three full courses of lectures, of 32 weeks of six days each, exclusive of vacations, at some

recognized and accredited dental school. The last course of which he shall have attended at this College.

3. He must have passed satisfactory written examinations by the Faculty on the Lecture Curriculum, and earned a satisfactory rating as to attendance and practical work.

All operating, prosthetic and technic work must be done in the College Infirmary, or the College Building, and exclusively by the applicant for the degree.

Rules Governing Standing of Students and Examinations

The grades will be made upon the scale of 100; the passing mark will be 75; attendance upon Infirmary clinics, 90 per cent; lecture courses and laboratories, 90 per cent.

GENERAL INFORMATION

When a student is obliged to withdraw from the College before the last four weeks of a session for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Faculty, he shall be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction. This remission to date reception by the Dean of a written notice of the student's withdrawal from the College.

Blank forms for application for admission will be sent by the Dean on request.

All fees must be paid in advance for each session, unless special arrangements are made with the Trustees. No student will be admitted for less than the stated fees.

All fees must be paid in full before the final examinations may be taken.

There will be no return of fees by reason of suspension or expulsion.

The matriculation fee must be paid to the Secretary before the name of a student will be recorded.

With the exception of legal holidays, the Infirmary is open the year round. There is no extra charge for the Summer

Clinical Course. While not a requirement, it is advised that the student spend as much time of the vacation period as he possibly can in the actual practice of Dentistry in the Infirmary. This course is very advantageous to the student, as it enables him to put in four solid months of practical work without any interruption for lectures.

The College is not responsible for any personal losses of the students.

All fees due the College are paid to the Secretary at his office in the Infirmary.

Laboratory benches and operating chairs are selected by students in the order of matriculation, and each student is required to occupy the same during the session.

Living expenses are about the same as through the Middle West and cheaper than on the Atlantic seaboard. Arrangements can be made through the College for securing accommodations.

The Faculty reserves the right to terminate the connection of any student with the institution at any time on the ground of what it may deem mental or moral unfitness for the profession, disorderly conduct, or failure to comply with the rules of the College.

The Faculty will expel any student convicted of practicing dentistry illegally while under its jurisdiction.

Students will not be admitted to class work and the Infirmary until after purchasing the required books and instruments.

No degrees will be conferred upon a student who is not present in person at the commencement exercises, unless excused by the Dean.

The College reserves the right to change any of the foregoing regulations at any time that it may deem expedient.

Operations in the technic departments of the school require a large number of natural teeth, and a sufficient supply is sometimes difficult to get. Students will therefore find it to their advantage to bring all the extracted teeth they can obtain.

Alumni and friends of the College are requested to send to the College boxes of extracted teeth. The College will be truly grateful for such favors and will gladly pay all express charges on such packages.

Graduate dentists will be admitted to the Infirmary for a less fee where the degree is not taken.

Five Medals Are Competed For

Forty per cent of the students of each class must compete otherwise no prize will be given.

1. The Cave Medal is given to the student making the best piece of Prosthetic Technic work.

2. The Los Angeles County Dental Society Medal is given the Senior who has made the best average on theoretical work during the College course.

3. The Ford Medal is given to the student making the best piece of Porcelain Technic work.

4. The Atwater Medical is given to the student making the best piece of Operative Technic work.

5. The Eshleman Medal is given to the Freshman student who has the best technic work for the year.

SCHEDULE OF FEES

Fees payable in two equal installments—October 15th and February 1st.

No student will be admitted for less than the stated fees.

Freshman Year

Matriculation fee	\$ 5.00
Lecture ticket	150.00
	<hr/>
	\$155.00

Junior Year

Matriculation Fee	\$ 5.00
Lecture ticket	150.00
	<hr/>
	\$155.00

Senior Year

Matriculation Fee	\$ 5.00
Lecture ticket	150.00
	<hr/>
	\$155.00

These fees include dissecting and all laboratory fees. There are no other charges made by the College.

Deposits, Cost of Books and Instruments

Before beginning his work, each student will be required to procure the instruments necessary for his use.

The approximate cost of books and instruments, all of which are needed after graduation, is as follows: (This includes a dental engine, and gives the student a practical outfit, so that he can start into practice on finishing his course without much additional expense for instruments. A list of the instruments is furnished the student on his arrival.)

Freshman year	\$100.00
Junior year	135.00
Senior year	85.00

Address all communications to the

COLLEGE OF DENTISTRY, U. S. C.,

Lewis E. Ford, D. D. S., Dean

304 East Fifth Street, Los Angeles, California.

DEPARTMENTS OF INSTRUCTION**OPERATIVE DENTISTRY**

Professor, L. E. Ford.

Associate Professor, M. Evangeline Jordan.

Associate Professor, J. Walter Gray.

In this department the student is instructed in the latest methods of operative procedure, the fundamental principles being taught in the Freshman and Junior Technic courses.

All of the different conditions, materials and methods of manipulation are considered, so that the student when graduated is competent to enter into active practice and give his patients the best of dental services. In order to develop the judgment and diagnostic ability of the student the Seniors during the second semester are required to study each case presented to them in the Infirmary. When they have decided upon the best method of procedure they then call one of the instructors, who will confirm or correct their opinion.

If qualified at the beginning of the second semester, the Junior students are admitted to the Infirmary for practical operations.

A very thorough course is given in the preparation of cavities and construction of porcelain and gold inlays.

In connection with this department, Professor Jordan will give a course of lectures on The Care and Management of Children's Teeth.

This course will consider pre-natal influences, and the nutrition and development of the child as relating to the teeth; the treating, filling and extraction of children's teeth; the disturbances found in the oral cavity incident to the first dentition, and the management of children in the office.

ANATOMY

Professor, Melvin P. Ellis.

Instructor, Byron Polk Stookey, M.A.

Freshman Anatomy.

Anatomy I. Lectures, recitations and demonstrations twice a week throughout the year.

In this course the anatomy of the Bones, Joints, Blood Vascular system, Peripheral nervous system, Thorax, Abdomen and their viscera is studied. Special emphasis is laid upon points of practical importance.

Anatomy II. Dissections and Demonstrations of at least one part of cadaver.

The student is shown the proper method of making careful and accurate dissections, particular attention being paid to thoroughness and relation of parts.

Junior Anatomy

Anatomy III. Lectures by Dr. Murphy or Dr. Ellis—twice a week followed by recitations upon the same. Special attention given to the anatomy most intimately associated with the practice of Dentistry.

Anatomy IV. Dissection and demonstrations of the head and neck.

Text Books—Cunningham, Piersol, Gray. Spateholtz, Atlas, Sabotta. Atlas of Descriptive Anatomy.

OPERATIVE TECHNICS

Professor, H. Gale Atwater.

Professor, John G. Sheaffer.

This important department is given especial attention in our College, for we realize that the future success of the student as well as the dentist, lies in first instructions.

It is our aim to make this department one of the strongest in the College. The object of this course is to afford a thorough technical training in operative procedures, preparatory to practical work in the Infirmary; to develop manipulative skill and to give the students an intimate knowledge of the tissues upon which they are to operate, of the physical qualities and adaptation of the materials to be used, and facility in the use of instruments by systematized practice upon teeth out of the mouth.

Special attention will be given to a study of pulp chambers and root canals, their number, size, form, and their relation to the outer surface of the teeth. Sections of the natural teeth will be prepared by each student in such a manner that these features will be clearly shown. The student will construct models carrying tooth forms of natural teeth, upon which operations will be performed as in actual practice. This will consist in the preparation of cavities and a study of their classification and forms; the study of enamel and direction of cleavage on different parts of the crowns of the several teeth with special reference to the best form and finish of margins of cavities for filling; the cutting of dentine and the various methods employed in anchoring fillings; the removal of carious tissue; the management of pits and fissures and the general shaping of the cavity. Instruction will also be given in the application of the rubber dam, the methods employed in gaining space, the use of clamps, wedges, separators, etc. In conjunction with practice in cavity preparation, there will be a study of filling materials and their manipulation. This course is designed to thoroughly ground the student in the principle of operative dentistry and prepare him to intelligently prosecute the practical work of the Infirmary.

COMPARATIVE DENTAL ANATOMY

Professor, Wm. Bebb.

This course covers a comparison of the teeth and surrounding tissues of man with those of the lower order of animal life. This is made more interesting and instructive to the student by the collection of crania, numbering 1,500 speci-

mens, which our museum affords, and a complete series of lantern slides for illustrating the lectures.

PORCELAIN

Professor, Eshelman.

Dr. Goodman, F. E. Burt.

Porcelain is attracting more and more attention. It is the most artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which it is difficult to detect.

Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. The College is equipped with Townsend, Hammond and Custer electric furnaces, a large oil furnace for continuous gum work. Students are taught how to construct inlays by the use of Gold and Platinum matrices, the different blending of colors, and also a complete course of lectures is given covering the entire subject.

Opportunity is afforded the Seniors for making a technical continuous gum case.

PROSTHETIC DENTISTRY

Professor G. F. Eshelman, Dr. C. J. Engstrom.

Realizing that there is no branch of dentistry where students are ordinarily so deficient as in the prosthetic department, we have aimed to develop a practical working course in this line, to the end that our graduates may be able to do this class of work in a practical and artistic manner.

From an artistic standpoint we teach the higher possibilities of the art of restoring the features of the face, together with the staining and grinding of the teeth to meet the conditions of the individual type of the patient.

The fundamental principles of atmospheric pressure, leverage, etc., are dwelt upon, that the student may intelligently meet the conditions presented in difficult cases.

Both technical and practical denatures of all kinds are made, such as vulcanite, celluloid, aluminum, Watts metal, weighted rubber, gold and porcelain continuous gum.

Particular attention is paid to the latter, and the student may be able to restore the teeth of patients by the highest type of artificial appliance known to our profession.

Both practical and technic interdental splints are made for fracture cases, as well as obturators and velums for cleft palate cases.

A dentist may be called upon to restore loss of tissue adjacent to the oral cavity, and that our students may know how to do this class of work, they will be taught the making of celluloid ears and noses.

An overabundance of Infirmary patients, together with all modern appliances for doing the work under the direction of the most competent of professors and demonstrators, enables a student to develop a high degree of skill in this department.

DENTAL ANATOMY

Professor, Atwater.

This coming term we will introduce the use of lantern slides for the study of dental anatomy.

This method will be of material benefit to the student, as the different surfaces of tooth will be enlarged upon the screen.

The student takes up the study of nomenclature, followed by descriptive human dental anatomy, the arrangement of the teeth and the structure of the root canals.

Drawings and the making of cross-sections of the various teeth enter into this course.

SURGERY AND ANAESTHESIA

Professor, Chas. D. Lockwood.

David D. Thornton, M.D.

The importance of this subject to the dental practitioner cannot be overestimated. A dentist is recognized as an oral

specialist. While he may not desire to undertake surgical operations, yet a lack of knowledge upon this subject will reflect upon his ability as a dentist in general.

Particular attention will be devoted to surgical diseases and injuries of the face, mouth, jaws and associate parts.

ORTHODONTIA

Professor, Jas. D. McCoy.

This subject is taught during the Junior and Senior years.

During the Junior year the course consists of a series of lectures illustrated by numerous lantern slides. Beginning with normal occlusion the lectures take up the different classes of mal-occlusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention, followed by a course in model and appliance making.

In the Senior year the instruction is entirely clinical and is given at the individual chair in the Infirmary.

HISTOLOGY—DENTAL HISTOLOGY—BACTERIOLOGY—GENERAL PATHOLOGY

Professor, E. L. Leonard.

In our new laboratory, equipped with thirty-five new microscopes and every appliance and convenience, these departments are conducted in such a manner as to be of great benefit to a dental student. Histology and Dental Histology are given in the Freshman year, Pathology in the Junior and Bacteriology in the Senior year.

DENTAL PATHOLOGY

Professor, W. C. Smith.

The instruction in this branch will consist of two lectures each week to the Junior and Senior students, embracing a study of all pathological conditions of interest to the dental practitioner, together with a general application of the therapeutic agents indicated in the treatment of such conditions.

DENTAL JURISPRUDENCE

Eugene Overton, Esq.

The lectures on Jurisprudence include qualification and duties of expert witnesses, the importance of dental records, etc., as a means of identification, the limitations of dental practice, the qualifications required, and the liabilities incurred by those who administer anaesthetics, the penalties that may be suffered, and the defense to be made in case of real or supposed malpractice, and the liability in case of infection from instruments; the requirements of the California law and the laws of other states respecting the practice of dentistry, the steps necessary to become legal practitioners, the duties and liabilities of dentists with reference to the law, etc.

EXTRACTION AND ANAESTHETICS

Dr. A. A. Shaw.

This course embraces a series of lectures upon the principles and practices of extracting, together with the use of the various local and general anaesthetics. With a well equipped Extracting Room and abundant clinical material, the student is afforded ample opportunity of becoming skilled in this work. This course will be given in the Junior and Senior years.

PHYSIOLOGY

Professor Jenks.

Professor Palette.

Professor Tebbetts.

The course of Physiology is given during the first and second years. The work consists of a systematic course of lectures, recitations and demonstrations. This College has a complete Physiology Laboratory equipment.

The subject of Cells and Tissues, Blood and the Circulatory System, are first taken up, and later the course is devoted to

the study of the Alimentary Canal Excretory Organs, Nervous System, Organs of Special Sense, and Organs of Reproduction.

PROFESSIONAL ETHICS AND HYGIENE

Professor Garrett Newkirk.

We are pleased to announce the return of Dr. Garrett Newkirk to our Faculty.

Professor Newkirk will deliver a course of lectures on these very important subjects. The personal and ethical conduct of the student before and after his graduation have quite as much to do in determining his standing and success in the community as does his knowledge and technical skill. Attendance at the society meetings is required.

CROWN AND BRIDGE WORK

Professor, C. H. Bowman, Dr. C. J. R. Engstrom.

Crown and bridge work pertains both to the operative and the prosthetic, and yet it occupies such an important field of dentistry that the College deemed it wise to make it of a separate department.

Students will receive a complete course in Crown technique, as well as lectures during their Freshman year. Juniors will receive a complete course in Bridge technique during the first semester, and will do practical work in the Infirmary during the balance of the year. Seniors will perform practical work in the Infirmary. The principles of construction of all of the various forms of crowns and bridges at present in use will be taught, also a study will be made of the stress applied by the muscles of mastication to the teeth, both singly and collectively, with its bearing upon crown and bridge construction, including the conditions under which bridges should or should not be used. The clinical facilities are excellent, requiring Porcelain and Gold Crowns and Bridges.

GENERAL AND DENTAL MATERIA MEDICA AND THERAPEUTICS

Professor, B. Frank Gray.

Professor Gray will give one lecture each week to the Junior class, and one lecture a week to the Senior class.

The work for the Junior class consists in a study of definitions, abbreviations and terminology use, the source of drugs in nature, preparations made from crude drugs, methods of administering medicines, and agencies classification of drugs, their physical, chemical and poisonous properties, dosage antidotes and therapeutic application. Special attention is given to those drugs which are most valuable in the practice of dentistry, and the course is so planned that the student may receive a practical knowledge of the application of dental medicine in his every-day work.

The Senior class will carefully review the work of the Junior year in a systematic way, and thereafter a special course of lectures will be given relating to the latest and best approved methods of the profession in the application of medicines to the treatment of those pathological conditions of more than usual significance to the dentist.

CHEMISTRY

Professors A. H. Jones, L. H. Wentworth.

1. General Chemistry

A. Lectures, Demonstrations and Text Book.

B. Laboratory Work.

The general principles of inorganic chemistry are reviewed. Especial stress is laid on physical chemistry, so that the student may correctly interpret the modern ideas of matter and the properties of matter. Then the study of the elements and their compounds is taken up; first the non-metals—most of them being prepared in the laboratory. In the study of the metals the application of the principles of chemistry and

metallurgy to the dental profession is continually borne in mind.

Qualitative analysis is begun during this year.

II. METALLURGY

A. Lectures and Demonstrations.

B. Laboratory Work.

In this course only those metals are considered that are of importance to the dentist. These are studied with reference to their physical and chemical properties; their separation and refining and their identification. The student is given unknown compounds of these metals and required to identify both metal and acid radical.

The chemistry of the mouth and salivary digestion is considered both in lecture room and laboratory. And the course is finished by the student preparing several organic compounds in every-day use in his profession—such as choloroform, aristole, iodoform, etc.

CLINICAL DENTISTRY

M. W. Hollingsworth, D.D.S.

We also take great pleasure in announcing that Dr. M. W. Hollingsworth has joined the teaching staff of this College. During the year he will give special demonstrations showing how difficult cases should be operated upon.

For many years he was associated with one of the largest Dental Manufacturing Companies, and his ability as a Clinician and Demonstrator is so well known that no additional comment is necessary.

INFIRMARY

Our Infirmary and clinical facilities are our special pride. The room is large and beautiful, facing north (the ideal light), and is equipped with every modern convenience. The number of patients who apply here for services is truly phe-

nomenal, and no student need fear that his practical education will be neglected. Last year more than five hundred patients in excess of the number that the students could find time to attend to applied for services. From this great clinic we are able to select for the student all of the operations in any given line in which he may desire to specialize, or where he feels that he needs extra experience and practice.

We have arranged the lecture schedule in such a manner that the students can work with little interruption from nine in the morning until four in the afternoon.

In charge of the work as professors and demonstrators we have a number of teachers of long experience and unquestioned ability. The student has the advantage of the personal contact and instruction of these competent men, and is not taught by students or recent graduates.

Fifteen new Columbia chairs will be added to the Infirmary this year.

COLLEGE OF MUSIC

The musical department of the University is now in its twenty-sixth year. By a faithful adherence to high standards its faculty have brought it to a well recognized position in higher musical education. Its diplomas have all the prestige which comes from its long establishment and the name of the University. Its graduates and former students are taking prominent places in the musical world all over the Southwest, both as teachers and performers.

Extended courses are offered in a wide range of musical subjects. The end sought in every branch pursued by the student is such thoroughness as will give him a genuine accomplishment and true culture or insure him the mastery expected of a professional.

ADVANTAGE OF COLLEGE STUDY

The general spirit of earnest study characteristic of an institution of higher learning such as the University has been found to react very beneficially on the student of music, who, too often, is inclined to superficiality. Breadth of character and liberal ideas are more surely attained in the atmosphere of general education than in that of specialized study.

Among the many points of superiority of college study in music may be mentioned the regular attendance at lessons required; the musical atmosphere created by the recitals, lectures and class work; the incentive to greater effort by observing the proficiency of others; the sharpening of the critical faculties and the development of taste by hearing other students perform; the opportunity given for obtaining in class work, at very slight expense, the very best of training in the theoretical studies, such as harmony, theory and history of music—studies which are essential to the well-grounded musician and which the private teacher cannot touch upon in the lesson hour .

EQUIPMENT

The College of Music occupies the south wing of the main building. The interior is thoroughly modern and artistic in finish and furnishings. It contains a commodious and elegant reception hall, furnished as a reception and reading room, also cloak room and lavatories, lecture hall and recital hall, and a large number of exceptionally large and attractive studios.

The school is equipped with a full complement of teaching and practice pianos. The pipe organ in the college chapel is available for practice only to our students. It is blown by electric motor and the charge for rental is no more than blower's fees would be in an organ blown by hand.

RECITALS

A feature of the greatest value to the students is the weekly pupils' recitals, at which the pupils are expected to play or sing before the whole school, as their teachers may direct. Public performance is an art in itself, and can only be mastered by many public appearances. Pupils who acquit themselves creditably at the recitals before the music students only, are allowed to appear at the public recitals of the school. A practical familiarity is thus gained with the music of the other branches represented outside of the student's specialty. Recitals are also given by the faculty from time to time, who are also frequently heard in the recitals given by the advanced pupils. Music students have free admission to all public exercises of the school.

NORMAL CLASSES FOR PIANO STUDENTS

A course of twelve class lessons or lectures is given each year by the faculty and others on matters relating to the subject of teaching. Methods of instruction and technical problems are considered. Lists of teaching material are given and reviewed and a question box leads to interesting and valuable discussions. This course is required of all graduates.

THE COURSE OF STUDY

The educational system of the school is divided into two general departments: the Preparatory and the Normal or Collegiate.

No requirements are made for admission, but applicants should be prepared to perform one or two musical selections of different styles representative of their previous work.

All beginners are received in the preparatory department, whether they plan for the regular advanced courses or merely desire the best of training during the time they devote to the study. Correct elementary teaching is the most important and, in some respects, the most difficult of all. It is the aim of the school to advance pupils as rapidly as is consistent with thoroughness and the formulation of correct habits.

The Normal or Collegiate department is designed for students preparing for the profession as teachers and artists and for amateurs desirous of obtaining a thorough training in the art and science of music.

DIPLOMAS

The diploma of the University is given at the completion of the Normal or Collegiate course.

The requirements for graduation in any department are the completion of the prescribed course in that department, at least on year's work in which must be done in this school; the completion of the Normal course of four semesters in harmony and ear training, two semesters in musical theory and two semesters in musical history, and the public performance during the senior year of an entire program under the direction of the department teacher, and, for piano students, the Normal class work.

Organ students will also be required to take the semester of "key-board harmony." Vocal students are required to take one year of piano work.

TEACHERS' CERTIFICATES

Teachers' Certificates will be given to those who have completed the work of the Normal course, but who for any reason

are unable to give the public recital required for graduation. They will, however, be required to give before the faculty a program of a somewhat less exacting nature than that required for the diploma.

COLLEGE CREDITS

Credits will be given in the College of Liberal Arts for musical work as follows: Two semester hours per term will be credited to students making passing grade in any one of the theoretical studies or advanced vocal or instrumental work, the total credits in any case not to exceed fifteen.

BUSINESS REGULATIONS

Students entering after the opening of the term will register for the remaining portion, and will be charged pro rata, except that no deduction will be made for absence from the first two lessons. The work of the term begins on the date advertised, and students who enter late will find themselves behind their classes.

All students are required to attend the regular recitals of the school and to take part in them whenever so assigned.

No deduction will be made for occasional absence from lessons or for lessons discontinued without notice. Lessons missed will be made up to pupils, if notice of the intended absence is given two days in advance.

Lessons falling on national holidays are not lost to students.

Sheet music will be furnished students at teachers' rates, if paid for on delivery.

A discount of fifteen per cent is allowed to the children of Methodist ministers on vocal and instrumental work.

Settle all accounts at the office only, making checks payable to THE DEAN.

TERMS: Tuition is payable strictly in advance at the beginning of each half term.

In case an extension of time is absolutely necessary, arrangements must be made with the Secretary, the terms of which will be stated on the bill and must be strictly adhered to.

For courses of study and further particulars send for special booklet.

TOTAL EXPENSES

(By the Semester, Nineteen Weeks.)

MR. SKEELE

Piano or Pipe Organ

45 minutes, once a week.....	\$47.50
45 minutes, twice a week.....	95.00
30 minutes, once a week.....	38.00
30 minutes, twice a week.....	76.00

MR. PEMBERTON

Theory, Harmony or History

45 minutes, once a week.....	28.50
45 minutes, twice a week.....	57.00
45 minutes classes, twice a week.....	15.00

Violin

1 hour, once a week.....	38.00
1 hour, twice a week.....	76.00

MR. SEILING

Violin

45 minutes, once a week.....	47.50
45 minutes, twice a week.....	95.00
35 minutes, once a week.....	38.00
35 minutes, twice a week.....	76.00

MISS TROWBRIDGE**Piano**

45 minutes, once a week.....	33.25
45 minutes, twice a week.....	66.50
30 minutes, once a week.....	28.50
30 minutes, twice a week.....	57.00

MISS ARNETT**Piano**

45 minutes, once a week.....	23.75
45 minutes, twice a week.....	47.50
30 minutes, once a week.....	19.00
30 minutes, twice a week.....	38.00

MISS PATTON**Piano**

30 minutes, once a week.....	19.00
30 minutes, twice a week.....	38.00

Dunning System

1 hour classes of 4 to 6, twice a week.....	38.00
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MRS. ROBBINS**Vocal**

30 minutes, once a week.....	47.50
30 minutes, twice a week.....	76.00

MR. COGSWELL**Vocal**

30 minutes, once a week.....	47.50
30 minutes, twice a week.....	76.00

Miscellaneous Expenses

Normal Class, six lessons per semester.....	\$ 6.00
Rental of Pipe Organ, one hour each day.....	17.10
Rental of Pedal Piano, one hour each day.....	8.55
Rental of Piano, one hour each day.....	4.00
Diploma Fee	10.00
Certificate Fee	5.00

COLLEGE OF ORATORY

The system used in the College of Oratory is based upon the Cumnock Method, founded by Robert McLean Cumnock, L.H.D., Director of School of Oratory, Northwestern University, Evanston, Illinois.

The aims of the College are:

To develop the inner man.

To prepare the body to express the inner man.

The method is neither imitative nor mechanical, but is founded upon psychological principles.

The pupil acquires the power to interpret for himself and to express emotions through his own individuality. The result is a naturalness and simplicity of manner together with personal power.

A great deal of attention is paid to the Department of Public Speaking. Ministers, theological students, or any who may have occasion to address audiences, will find this work of great value.

The Calendar of the College of Oratory is the same as that of the College of Liberal Arts.

COURSES OF STUDY

(Class Work.)

1. **Fundamental Principles of Expression**, English phonation, enunciation, interpretation of selections from Cumnock's Choice Readings. Two hours, first semester.

2. **Voice building**, breathing, tone placing, bodily expression, interpretation of selections from Cumnock's Choice Readings. Two hours, second semester.

3. **Interpretation from modern writers**: Kipling, Barrie, Van Dyke, Riley, Kate Douglas Wiggin, Maclaren, Dunbar and others. Two hours, both semesters.

4. **A study of Lyric Poems**: Wordsworth, Browning, Tennyson, Burns, Lanier, Arnold and others. Two hours, either semester.

5. Voice, Relaxation, Concentration, Breathing, Tone Placing, Rhythm, Phrasing. One hour, both semesters.

6. Debate and Extemporaneous speaking. Two hours, either semester.

7. Oratory. A study of masterpieces of Oratory. Text: Sears' History of Oratory. Two hours, either semester.

8. Shakespeare: Julius Caesar, or King Richard II; Twelfth Night, or Two Gentlemen of Verona; Midsummer Night's Dream. Two hours, either semester.

9. Artistic Anatomy. A summary of Anatomy intended for the study of forms, attitude and movements. Text: Duval's Artistic Anatomy. Two hours, first semester.

10. Repertoire, abridgement of books and classics for public presentation, arrangement of program, impersonation. Advanced students only. Two hours, second semester.

11. Bible and Hymn Reading; Vocal Expression of the Bible and Hymns, Voice Building. Text: Curry's Vocal Interpretation of the Bible. Two hours, either semester.

12. Assembly. All private pupils meet with the Dean to pursue a course in the Art of Expression. Two hours, both semesters.

13. Dramatic Club. Interpretation and presentation of the drama. A study of dramatic law. Two hours, both semesters.

14. Physical Expression. Two years of training for physical development and the acquiring of grace and harmony in all bodily movements. Two hours, both semesters.

15. Story Telling. A study is made of the art of telling stories to children. One hour, both semesters.

DIPLOMA COURSE

The work required in this course consists of: Three years of private work, two lessons per week; the fifteen courses; two years' gymnasium work; College work sufficient to enroll a student as a Junior in the College of Liberal Arts.

CERTIFICATE OF EXPRESSION

The work required in this course consists of: Two years of private work, two lessons per week. Courses 1, 2, 3, 5, 9, 10, 12, 13, 14 and 15, and two of the remaining five courses to be elected; one year of Gymnasium work.

Students wishing to complete this course of study must have at least one year of History, and two years of English.

CERTIFICATE OF PHYSICAL TRAINING

The work required in this course consists of: Two years of private work in physical training, two lessons per week. Courses 1, 2, 3, 5, 9, 13, 14, 15, and three of the remaining seven courses to be elected; two years of general work in the Gymnasium.

Students wishing to complete this course must have at least one year of Physiology or Hygiene.

RECITALS

Pupils' recitals are given every two weeks, on Wednesday at 3:50 p. m., in the Athena Literary Hall. The participation in these recitals by students is required that the student may have practice and gain confidence in appearing before audiences. All students enrolled in the school are expected to be present at each recital. Admission to friends is by card.

Faculty recitals are given each semester by the instructors in the school, or by artists from the outside.

PHYSICAL EXPRESSION

"Is not that the best education which gives to the mind and to the body all the force, all the beauty and all the perfection of which they are capable?"—Plato.

Special classes in Physical Culture are conducted for the Oratory students. The laws which underlie Physical Expression are here studied and such exercises are given as will best develop the pupil toward health, expressiveness of movement and grace. It is the aim of this work to bring

the body under perfect control of the will, and to teach the principles of gesture in such a manner as to give spontaneity and freedom from affectation.

CHILDREN'S DEPARTMENT

This course is planned for children under twelve years of age. Classes are organized in expression, where the children are trained in common reading and in the delivery of recitation.

Classes are also formed in Physical Culture, where children are taught correct breathing, standing, walking, sitting, and ease and lightness of movement. Exercises are given to correct individual faults of body, such as round shoulders and hollow chests.

TUITION

Fees are payable to the Dean in advance.
Instruction per semester, (18 weeks).

Full course, including two private lessons per week, four or more classes in Expression, one study in the Preparatory School, or College of Liberal Arts.

Paid in advance for the year.....	\$130.00
Full course, per semester.....	70.00
Two private lessons per week (30 minutes).....	50.00
One private lesson per week (30 minutes).....	25.00
A course of ten lessons (30 minutes).....	15.00
One private lesson per week (45 minutes).....	37.50
A course of ten lessons (45 minutes).....	22.50
Single lessons (45 minutes).....	3.00
Single lessons (30 minutes).....	1.50 to 2.00
Class, two periods per week (55 minutes).....	10.00
Dramatic Club, two periods per week (55 minutes).....	10.00
Coaching plays (60 minutes).....	1.50

Physical Education

Full certificate course.....	\$60.00
One private lesson per week (30 minutes).....	25.00

Children's Department

Two private lessons per week, Expression (30 minutes)...	\$35.00
One private lesson per week, Expression (30 minutes)....	20.00
Class Expression, course of 15 lessons.....	8.00
Class Physical Culture, course of 15 lessons.....	5.00

A discount of 10 per cent on all private work will be given to minister.

No tuitions are refunded except in cases of protracted illness.

A registration fee of \$5.00 is charged, which is included in the tuition. In case a refund is made the registration fee is deducted.

The diploma fee is \$10.00.

The certificate fee is \$5.00.

A student in the College of Liberal Arts may elect a maximum of fifteen hours in the College of Oratory.

University of Southern California College of Oratory,

Thirty-fifth Street and Wesley Avenue.

Miss Beulah Wright, Dean.

COLLEGE OF FINE ARTS

CALENDAR

1911

- September 11Enrollment of Students.
September 13Class work begins.
December 22 (Friday).....Christmas Vacation begins.

1912

- January 2 (Monday).....Class work resumes.
(Examination in Osteology and special branches,
last week in January.)
FebruarySecond Semester begins.
June 3Examinations begin in Anatomy,
Art History, Mythology, Technic.
June 13Commencement.
June 13Alumni Reunion and Banquet.

THE COLLEGE OF FINE ARTS

There has long been a crying need for a standard of attainment which would fix the status of a graduate in art as clearly as that of a graduate in law or medicine. Our curriculum, as set forth in this bulletin, and the reputation which the College of Fine Arts has gained for thoroughness, are guarantees sufficient that our graduates are qualified experts in their specialties, as capable in their work as college training can make them and needing only experience to place them in the front ranks of their profession.

There are, at present, in these Western states many professorships and supervisorships waiting for competent and well trained teachers. There are opportunities in architec-

tural drawing, in designing for glass, metal work and textiles, wood carving, jewelry, scene painting, etc.

Expert workers in these lines are always in demand, and many students learn these crafts as a convenient stepping stone to the study of fine art.

It should always be understood that thoroughness is essential to success everywhere. The lower ranks are always overcrowded in every line of endeavor.

In this friendly climate outdoor work is possible almost every day in the year. For this reason a large part of the lecture and recitation work, as well as painting and drawing, is done on the college grounds. The immediate surroundings of the school are exceedingly picturesque. The buildings overlook the famous Arroyo Seco, a treasure house of paintable subjects, with the San Gabriel valley and the white peaks of the Sierra Madre mountains closing the distance. There are seven large, well lighted and ventilated studios, picture gallery and lecture room, an art library with all the best art magazines and every possible convenience. The equipment for drawing, life study, modelling and the various art crafts is complete. The quality of the teaching staff is not excelled anywhere.

The great change which has occurred in recent years in the social conditions of the masses and the awakening of the public mind to a keener appreciation of the things which make for better living, demands a new departure in the teaching of art ideas and the practice of making beautiful things.

Art is no longer a rare and isolated thing for the enjoyment of the few. The aim of every artisan and of every manufacturer nowadays is to turn out something beautiful which may add to the general enjoyment of life. So art is applied to everything that is made and there are a hundred artists busy now where there was one thirty years ago.

The aim of the art crafts is to make some useful thing beautiful, and the facilities are now such that every person who has the sense of beauty and a little finger ability may produce something both useful and beautiful; indeed, something worth while.

No occupation in the world so appeals to the average mind as the making of beautiful things.

The College of Fine Arts has a perfect equipment, a staff of expert teachers and every facility for the production of good results in all the crafts. An attractive feature of craft study is that pupils often produce work which values many times the cost of tuition.

COURSES OF STUDY

Teachers' Course—Three Years

First Year—Charcoal drawing from the cast, pencil drawing from landscape, mechanical drawing, including geometry, perspective and projection, art history and mythology.

Second Year—Drawing from life, portrait, draped and nude figure, composition, landscape, modelling, applied design, anatomy, water color, art history, sacred history, pottery and metal work.

Third Year—Painting in water color and oil from life and landscape, pen and wash drawing, composition, modelling, anatomy, design, art crafts in metal, wood and pottery, normal teaching course.

Architectural Course—Two Years

First Year—Same as teachers' course.

Second Year—Building construction, plan drawing, perspective, historic styles, history of ornament, nature of materials, stresses and strains and mathematics.

Design Course—Two Years

First Year—Free hand and mechanical drawing and original design.

Second Year—Composition, color, harmony, original design.

Third Year—Historic design, Interior Decorating, Applied design.

Sculpture—Three Years

First Year—As in teachers' course.

Second Year—Modelling from life, draped and nude, portrait, art history, mythology, anatomy.

Third Year—Modelling from life, grouping, composition, historic monuments, anatomy and casting in plaster and metal.

Degree Course—Four Years

First, Second and Third Years—As in teachers' course.

Fourth Year—Specializing in water color or oil, life or landscape, etching, pastel painting and design, leading to the degree of Bachelor of Fine Arts.

Special Branches

The painting course includes drawing, technic in water and oil, anatomy, chemistry of pigments, color harmony and composition.

Anatomy

Artistic anatomy includes study of the skeleton, superficial muscles and movements from life.

Illustrating

This course embraces the technic of charcoal, pencil, pen and brush work, anatomy and the principles of design and composition.

Designing

The course in design covers mechanical drawing, composition, the history of principles of ornament, color, harmony, the constructive requirements of fabrics, glass work, textile products, metal work, etc.

Metal Work—Brass and Iron

Includes hammer work, etching, chasing, piercing, mould making, casting, forging and enameling.

Jewelry

This course includes wire and band work, casting, chasing, jewel setting, enamelling and design.

Normal Art Course

Includes practical work in all the art branches taught in grade schools, as object drawing in pencil, charcoal and wash, silhouettes, potato printing, stencilling, cardboard modelling, colored chalks, harmony, design, etc.

Wood Carving

Wood carving includes design, the selection of woods and the technic of carving, incising, bas-relief and the round.

Art Glass

Art glass includes design, hard metal mounting, leading, cutting, color harmony, painting on glass and firing.

Diplomas

Certificates and other honors are conferred by the University of Southern California, with which institution the College of Fine Arts is affiliated.

Special Branches

May be taken separately from the course and certificates of proficiency will be granted on passing the required examinations.

Credits

For work done in other schools will be allowed when satisfactory proficiency is shown.

Students

In special branches may enter the school at any time.

At the College of Liberal Arts

In the University building classes are conducted in mechanical drawing, perspective, machine drawing, architecture and freehand drawing.

Lectures

There are three lectures per week on anatomy and other art subjects free to all enrolled students.

Frequent Competitions

Are open to advanced students, entitling the winners to certain school privileges.

A Gold Medal

Is each year given to the student of any grade making the best record.

A Scholarship

For one year given to the graduate making the best record.

FEES (All day lessons)

6 Days per week.....	\$12.00 per month
3 Days per week.....	6.50 per month
1 Day per week.....	3.50 per month
Single Lessons each.....	1.00
Full Collegiate Year.....	85.00
Per Semester	45.00
To post graduates, per year.....	25.00
Graduation fee	5.00

No charge is made for models, lockers, boards, easels, etc. Materials are furnished to students at wholesale rates.

All fees payable in advance.

Class hours: 8 a. m. to 12 m. 1 p. m., to 4 p. m.

The school dormitories are equipped with every comfort and convenience, including facilities for light housekeeping.

Board and lodging may be had near the school at reasonable rates.

COLLEGE OF PHARMACY

CALENDAR

1911

October 10 (Tuesday).....Registration.
October 17 (Tuesday).....Instruction begins.
November 23 (Thursday)..Thanksgiving Vacation.
December 18 (Monday)....Christmas Vacation begins.

1912

January 1 (Monday).....Christmas Vacation ends.
January 29 (Monday).....Mid-year Examinations begin.
February 22 (Thursday)....Washington's Birthday.
March 25 (Mon.) March
31 (Sunday).....Spring Vacation.
May 20 (Monday).....Final Examinations begin.
June 13 (Thursday).....Commencement.

Advantage of Location

Los Angeles is the metropolis of Southern California. Its population of about 325,000 represents almost every State in the Union and many foreign lands.

The climate throughout the year is such that tourists from every quarter come to spend a part of the year, and many return to make this their permanent home.

It is the greatest railroad center on the Pacific Coast. Four transcontinental lines are now complete. A network of electric roads connects the city with the numerous beaches, mountain resorts and outlying towns. These are reached by delightful journeys through orange groves and orchards of semi-tropical fruits characteristic of the region.

University Advantages

The close association of the student of the College of Pharmacy with those of the other colleges of the University on the campus affords valuable opportunities for social culture and attending prominent lectures on subjects of vital interest to the student.

Course of Instruction

The system of instruction will include lectures, demonstrations, recitations, written and oral examinations, as well as individual instruction in operative and dispensing pharmacy, organic, inorganic, and analytical chemistry, botany, materia medica, pharmacognosy, toxicology, hygiene, physiology, sanitary science, food and drug analysis, and microscopy, with special lectures upon business topics especially suited to the retail pharmacist.

The session will open October 10, 1911, and will continue until June 2, 1912, and the schedule will be conducted during the forenoon so as to allow students the privilege of retaining their positions as clerks in the stores of Los Angeles and neighboring towns while attending college. The hours of instruction are from 8 a. m. to 12 m.

Requirements for Admission

Requirements for admission may be met as follows:

1. Graduation from an accredited High School or other preparatory school of approved rank.
2. The completion of one year of High School work or its equivalent after eight years of Grammar School work.

Any delinquencies in the entrance conditions may be removed during the first year's work in Pharmacy in the Preparatory School of the University or with tutor approved by the College of Pharmacy.

Applicants must be at least seventeen years of age.

Advanced Standing

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this College.

Conditions for Graduation

The candidate for the degree of Pharmaceutical Chemist (Ph. C.) from this College must have fulfilled the following conditions:

- *1. He must have attained the age of twenty-one years.
2. He must be of good moral character and must have maintained an irreproachable moral standing while in attendance at this College.
3. He must have attended two full courses in each of the departments of this College, or one course (the Senior) in this, after a course in some other recognized College of Pharmacy.
4. He must present a thesis embodying an account of some special work done under the supervision of the Faculty.
5. He must have attended at least 80 per cent. of the lectures, reviews and laboratory work.
6. He must be present at Commencement unless excused by the Dean.

*If under age, the degree will be conferred at the satisfactory completion of his course in college; but his diploma will be held by the Dean until this condition has been complied with.

Graduate Course

Students who have received the degree Pharmaceutical Chemist (Ph.C.) from this university, or have had an equivalent training elsewhere may be admitted to the graduate courses of study. On completion of one year's work approved by the faculty and meeting the other requirements for graduation, the degree Bachelor of Pharmacy (Ph.B.) is conferred.

DEPARTMENTS OF INSTRUCTION**PHARMACY**

Professor, Arthur R. Maas.

Junior Year—Eight hours per week.

The lectures of the Junior year will treat of the history of the Pharmacopoeia. Weights and measures, percentage solution and the arithmetic of dispensing and manufacturing pharmacy, owing to their importance, will be considered at length. Specific gravity and specific volume will be taught by demonstrations, using the various apparatus for the purpose, accompanied by a thorough explanation of each. Heat will next be considered, then the operations wherein heat is used; evaporation, distillation, sublimation, desiccation, exsiccation, etc. This will be followed by a discussion of the preservation of crude drugs and their preparation for manufacturing purposes; then the operations of decantation, filtration, clarification, maceration, infusion, decoction and percolation.

Alternating with the subject of operative pharmacy, the galenical preparations will be critically studied; while they will be discussed from the standpoint of their several classifications, such individual preparations as merit it will be given special consideration, the object being to familiarize the student with the reasons for each step taken in the manufacture of the different preparations.

Senior Year—Eight hours per week.

The lectures of the Senior year will embrace the study of the inorganic and organic acids and the salts of the different metallic bases; the commercial methods of preparation will be touched upon, and a special effort will be made to teach the student how to prepare them extemporaneously when necessity arises therefor. In addition to the official compounds, those unofficial ones which through frequency of use merit it, will likewise be treated of.

This will be followed by a study of alkaloids and the neutral principles of vegetable drugs.

Extemporaneous pharmacy will then be taken up and will include a thorough discussion of dispensing. Facsimiles of physicians' prescriptions will, by means of the stereopticon, be thrown upon a screen, and the class drilled in reading those that are with difficulty legible. Chemical and Pharmaceutical incompatibilities will be taught, and best methods discussed for overcoming same.

Manufacturing Pharmacy. Visits are made to several large manufacturing establishments where the preparation of pills, tablets, fluid extracts, etc., are studied at length from a manufacturing standpoint.

MATERIA MEDICA-PHARMACOGNOSY

Professors, A. C. Life and C. W. Hill.

This course consists of one lecture or recitation and one laboratory exercise of two hours per week, and will present the subject in as broad, yet concise form as possible. It will be confined to that instruction which will be of greatest benefit to the student when the course is completed, giving larger consideration to those drugs of animal and vegetable origin which in commerce are most frequently met with.

The subject will treat first of those drugs of animal derivation, and will then proceed to give consideration to those drugs of Phanerogamic and Cryptogamic origin. The lessons and lectures in *Materia Medica* will be based upon the pharmacopoeia; at the same time due observation will be given to those remedies which are unofficial. The order in which these agents will be taken up will be based upon a commercial classification, studying first the roots, which will be sub-classified according to analogous properties; then continuing with Rhizomes, Barks, Flowers, Fruit, Seeds, etc. A prominent feature of the course will be found in the concurrent lecture system of instruction.

Instruction will be given two hours per week in Pharmacognosy, by lectures, as well as by recitations, quizzes, home study and examination of drugs—all these will be given with

the view of enabling the student the more readily and thoroughly to identify the drug and give judgment as to quality.

The subject will be presented as follows: 1st—Drugs of animal origin. 2nd—Vegetable drugs.

Treating first the Cryptogams and next the Phanerogams.

Each drug will be considered as to its nature, origin, commercial and botanical relation, and microscopical structure, active principles, therapeutic action, doses, etc.

Adulterations, admixtures and substitutions will be thoroughly discussed.

CHEMISTRY

Professor, Laird J. Stabler.

Junior Year—General Chemistry.

Two lectures or recitations and six hours in the laboratory each week for the year.

A course of lectures and demonstrations designed to be an introductory course in general chemistry, including a consideration of the principles governing chemical action and a description of the properties of the various elements and their compounds, as well as a drill in the meaning and use of symbols in chemistry, formulae and equations. Special emphasis is placed on chemical facts involved in the daily work of a pharmacist.

Junior Laboratory Course. The student is provided with a complete equipment of apparatus for qualitative analysis. During this course, a detailed study of the chemical and physical properties of the non-metals and their more important compounds is made and practical instructions in qualitative and volumetric analysis is given. Particular attention will be given to the separation and identification of the compounds of the United States Pharmacopoeia, together with tests of purity.

General Inorganic Chemistry. During the first part of the year the student prepares the more important elements and

their compounds, making a careful study of their chemical and physical properties.

Qualitative Analysis. This course follows the course in General Inorganic Chemistry. It is a study of the methods of separation and identification of the principal bases and acids. In this work the identity and purity tests of the Pharmacopoeia are studied. The student analyzes a number of compounds unknown to the student, for bases and acids and makes tests for impurities in Pharmaceutical and commercial chemicals.

Senior Year

Organic Chemistry—Toxicology—Urine Analysis. Two lectures or recitations and six hours each week throughout the year.

Organic Chemistry. The course will cover the whole field of this branch which is so important to the pharmacist. Special attention will be paid to those compounds which are of pharmaceutical value, including synthetical and medicinal preparations. The following subjects are studied with care, hydrocarbons, alcohols, ethers, compound ethers, aldehydes, glycerin, fats, soaps, oils, carbohydrates, organic acids, amines and amides, aromatic bodies, resins, albuminoids, cyanogen compounds, alkaloids, etc. Some of the important chemical operations occurring in nature will receive attention, such as combustion, decay, fermentation and putrefaction.

Laboratory Work in Organic Chemistry. The laboratory work will consist of the preparation of typical organic preparations illustrating the general reactions involved in organic chemistry. Among the preparations made are, ether, chloroform, iodoform, acetic ether, nitrous ether, acetanilide, methyl salicylate, etc.

Quantitative Analysis. An introduction to the underlying principles of gravimetric and volumetric analysis. Attention is paid to the standard "Volumetric Solutions" of the Pharmacopoeia.

Toxicology—Laboratory Course. The course will include lectures and practical laboratory work in the identification of the common poisons and also the methods of separating them from various complex mixtures.

Urine Analysis. The course will consist of lectures on the normal and pathological constituents of urine. In the laboratory the qualitative and quantitative estimation of sugar, albumin, urea, etc., will be studied as well as microscopic examination of the sediment.

Food and Drug Analysis. The latter part of the Senior Year will be given over to Food and Drug analysis. The course will consist of lectures and laboratory work. Each student will be required to make a number of assays of U. S. P. preparations and also examine food products for preservatives and adulterants. The official methods of analysis of the Department of Agriculture will be used.

BOTANY AND MICROSCOPY

Professor Ulrey.

Assistant Professor Life.

Botany. The courses in Botany are planned with reference to the needs of the pharmacist. Since most drugs are parts of plants or plant-products a thorough knowledge of plant life is necessary to those whose business requires the dispensing of drugs.

Junior Course. The full year is devoted to the study of seed-bearing plants; (1) The parts of the flower, leaf, root and stem are studied with reference to classifying plants and learning the names of representatives of each of the more important families. (2) The microscopic structure of the parts of the plant is then studied to become familiar with the kinds of cells found in the stem, root and leaves preparatory to the study of pharmacognosy. (3) A study is made of the manner in which drug products are produced by the

life processes and habits of plants. The production of resins, oils and other vegetable substances is considered.

Senior Course. During the senior year the non-flowering plants are studied: (a) Algae and Fungi (Thallophytes); (b) Mosses and Liverworts (Bryophytes); (c) Ferns and their allies (Pteridophytes). Most of this course consists of a microscopic study of typical plants representing the groups with a series of lectures dealing with the meaning of facts observed in laboratory study. Special attention is given to those plants like the fern, club mosses, the so-called "Irish Moss," ergot, etc., which are of importance to the pharmacist.

In each of the courses the student is furnished a compound microscope, hand lens and dissecting instruments.

The lecture room is supplied with a complete electrical projection apparatus by which microscopic objects can be thrown on the screen before the class.

Microscopy. Throughout the course of Botany the student has learned the use of the microscope, its parts, the methods of preparing slides for temporary use, etc.

In this course the student examines and uses the different kinds of microscopes and accessories. He learns how to measure microscopic objects (micrometry) and to prepare permanent slides of tissues and other objects. The laboratories are fitted up with a complete set of apparatus for photographing microscopic objects; ten styles of compound microscopes of foreign and American makes; four styles of microtomes; camera lucida; condensers; micrometers and several hundred prepared slides for use in class work and demonstration.

PHYSIOLOGY, HYGIENE AND SANITARY SCIENCE

The action of drugs on the body is a subject requiring more attention from the pharmacist than formerly. He is responsible both morally and legally for the results of his sale of drugs.

Therefore a knowledge of the human body and its functions becomes an absolute necessity to the present-day pharmacist.

Physiology

I. Junior Course. The first semester is given to a study of the human body, its parts and the way it carries on the functions of digestion, circulation, etc.

All the systems of organs are considered and each of the fundamental processes is studied.

The semester's work prepares the student to understand to some extent what action drugs may have on the body.

Hygiene

The care of the body as to the use of foods, drink, fresh air, exercise, etc., comprises the first part of the course. A consideration of the methods by which one may enjoy health as a result of right living and the injury likely to result from wrong habits.

The place of drugs in every-day affairs as they are related to hygiene.

Sanitary Science

The nature of bacteria, methods of growing them and their place in nature. A sufficient acquaintance with these microscopic plant forms is attained to enable the pharmacist to know which bacteria are beneficial and which disease producing; what conditions are harmful and what not so; how to prevent decay of foods, etc., methods of sterilization and disinfecting. The water and milk supply and other foods receive special study with reference to the bacteria they contain.

The course gives sufficient practice in handling bacteria to avoid needless fear of them and to guard against the danger of infection where disease-producing forms are likely present.

TOXICOLOGY

Professor, Arthur R. Maas.

This course consists of lectures to the Senior Class in which the different kinds of poisons are studied, the classes of antidotes, the various body conditions which modify the

effects of poisons, and the different channels by which poisons may enter the body. Later each poison is taken up in detail and studied as to its lethal dose, symptoms, antidote and treatment. Attention is given to Posology, doses of potent drugs being given special emphasis.

PHARMACAL JURISPRUDENCE

Mr. Howard A. Peairs

The course consists of lectures to the Senior Class in which the rights and responsibilities of pharmacists and the laws affecting the same are taken up and fully discussed. The Constitution of the United States and State Constitutions are explained, then Federal and State law, international law, etc. The statutes regulating the practice of Pharmacy, with their constitutionality, are discussed. The legal limits of Pharmacy, right to practice, legal qualifications of pharmacist, etc., are taken up, together with the liability of pharmacist and manufacturing pharmacist.

COMMERCIAL PHARMACY

Mr. L. Schiff.

This course consists of lectures on topics in connection with the conduct of the business of Pharmacy, such as Buying, Selling, Insurance, Advertising, Bookkeeping, Correspondence, and General Business Building.

FIRST AID TO THE INJURED

C. L. Lowman, M.D.

This course is planned to meet the needs of the Pharmacist who is often called upon to render first aid in accidents and do general emergency work.

The subject touched on will be Wounds and their treatment, Burns, Fractures and Dislocations, Poisoning, Resuscitation in unconscious conditions, Bandaging, etc.

GRADUATE COURSES**Degree of Bachelor of Pharmacy, Phar.B.**

These courses are open to graduates in pharmacy either of this or other colleges requiring equivalent qualifications for graduation.

The graduate course consists of one year's instruction in the following subjects. The course is to be elected with the approval of the faculty. Upon completing the prescribed course, passing the required examination and presenting to the examining committee a satisfactory thesis embodying in it the results of original research or investigation in a subject allied to pharmacy or chemistry, the candidate will receive the degree of Bachelor of Pharmacy.

Analysis of Food Materials and Food Products. The course consists of lectures and laboratory work, making use of the standard method employed by the food and drug chemist. Laboratory practice is upon material obtained in the open market and includes the following subjects: Meat and meat products, edibles and fats, dairy products, cereal products, saccharine products, canned vegetables, cocoa, tea, coffee, spices, vinegar, flavoring extracts, fruits and fruit products, fermented and distilled liquors, baking powders, food preservatives and coloring matter.

Assaying. This course comprises silver and gold extraction by scorification and crucible methods; fire assays of copper, lead and tin, extraction of gold from ores by the amalgamation, the chlorination, the cyanide and the electrolytic process.

Organic Chemistry. A course of lectures and recitations based upon Remseus' Organic Chemistry.

Synthetic Organic Chemistry. This course consists of the manufacture and purification of a large number of organic substances illustrating typical reactions.

Inorganic Preparations. A laboratory course including preparation of inorganic compounds, with tests for purity and strength.

Pharmacy

The work in pharmacy will be left partially to the option of the student. It will, however, be along the lines of advanced pharmaceutical operations, such as the extraction, purification, identification and assay of alkaloids, volatile and fixed oils, resins, oleo-resins, gums, gum-resins, etc.

The student will also examine drugs and pharmaceuticals purchased in open market, applying tests of the U. S. Pharmacopoeia and making such further examinations as may be necessary to determine the purity and strength of the article in question.

When improvement of U. S. P. processes, preparations or tests seems desirable, the student will be given an opportunity to work along these lines.

Throughout the course the instruction will be as far as possible individual and personal, and especially directed toward the requirements and aims of each separate student.

Bacteriology and Sanitary Science

The course consists of a further study of Bacteriology in its relation to hygiene, sanitary science and the work of the pharmacist. It consists in part of water tests, staining bacteria, testing disinfectants and a study of bacteria of foods.

EXAMINATIONS

Written examinations are held from time to time during the session in each of the subjects taught by the professors, and the ratings received are recorded.

Attendance upon these examinations is compulsory. Any student unavoidably absent is required to deliver to the professor a statement in writing of the cause of his absence.

Each student is required to attend at least 80 per cent. of the lectures and laboratory sessions in each department, and failing to do so becomes ineligible for examinations except where he presents a satisfactory excuse for absence prior to the examination.

Junior Examination (for admission to the Senior class).—Junior students, whose rating shows satisfactory progress, receive certificates entitling them to admission to the Senior class.

Junior students who receive a low grade in not over two subjects may enter the Senior class on condition, such conditions to be removed by examination before the end of the first semester of the Senior year.

Junior students who fail in more than two subjects are required to attend college another term.

First-course students from other colleges of pharmacy, who desire to enter the Senior class of this college, are required to produce evidence of their fitness, or to pass an examination.

Senior Examination. Students in the Senior class are examined for the degree of Pharmaceutical Chemist at the end of the session, in Inorganic and Organic Chemistry, Pharmacy, Botany, Materia Medica, Pharmacognosy, Physiology and Toxicology.

Thesis. Senior students will be required to present a graduating thesis. Such thesis is to show the result of some original work in one of the departments of pharmacy. The subject of the thesis is to be approved of by the professor in whose department the thesis is selected. Thesis subjects should be selected not later than the middle of the first semester, and preferably during the Junior year, so as to allow plenty of time for work.

These are to be handed in two weeks before the close of college.

EMPLOYMENT

The course of lectures has been so arranged as to permit those who desire it to devote a portion of their time to employment.

The Secretary will keep a register of students seeking such employment, and will give every assistance possible in procuring it for them.

ATHLETICS

The Faculty encourage athletic sports for their value in developing the body, furnishing a means of pleasant recreation, as well as a source of social and ethical culture, and in cultivating the spirit of co-operative enterprise. One of the finest athletic fields in Southern California is on the campus as well as a gymnasium completely equipped.

Students of the college in good standing are eligible to places on the foot-ball, baseball and track teams of the University.

Discipline and Good Order. All students are expected to observe the principles of good conduct and order while attending the College, and plain infractions of the rules will be referred to the Executive Committee of the Faculty, with recommendation of reprimand, suspension or expulsion.

Suggestions to Prospective Students. It would be to the advantage of students if they would matriculate a few days in advance of the opening exercises, secure boarding places, and fulfill the entrance requirements, so that their studies may not be interrupted in the beginning.

Board and Lodging. Good board and lodging vary in prices from \$3.50 to \$6.00 per week. Rooms for those who wish to board and lodge themselves will cost from \$6.00 to \$10.00 a month. By forming boarding clubs, students may reduce the cost of board to \$2.00 a week.

A list of desirable rooms and boarding places may be obtained by addressing the Young Men's and Young Women's Christian Association of Los Angeles or by inquiring at these organizations.

FEES AND EXPENSES

Tuition Fees. The tuition fee for each year is \$85. The payment of this fee entitles the purchaser to one continuous course of lectures and laboratory instruction in all departments. The tuition fee covers all drugs, chemicals and other

materials (with the exception of a few expensive drugs and chemicals) consumed by the student in the laboratories.

Special Students may, by permission of the faculty, take any part of the course at a proportionate tuition fee, providing that such fee shall not be less than \$25.00.

Medical students will find a systematic instruction of pharmacy an excellent foundation for a medical course. The instruction offered in this school of pharmacy will give a working knowledge of chemistry as is applied in the engineering and metallurgical industries.

Laboratory Deposit. Chemical and pharmaceutical apparatus and supplies, together with microscopes and other implements required in the work of the course are furnished by the College without expense to the student, but breakage or damage to apparatus must be paid for, and for this reason each junior or senior student is required to deposit \$15.00 with the Secretary. This deposit, or such portion of it as is not required for the specified purpose, will be refunded at the close of the term.

A diploma fee of \$10.00 will be required.

Payment of Fees. All fees must be paid at the beginning of the term. Where this is impossible, the Laboratory Deposit and at least one-half of the tuition must be paid upon entering the class. The balance of tuition to be secured by note to be paid sixty days from date of matriculation.

All fees must be paid before the final examinations are taken.

CORRESPONDENCE

Letters of inquiry will receive careful and prompt attention. Address all communications to College of Pharmacy, Thirty-fifth Street, and Wesley Ave., Los Angeles, California.

COLLEGE OF THEOLOGY

CALENDAR

1911

- October 5Registration.
October 6Registration.
October 9Lectures begin.

1912

- February 6, 7, 8, 9.....Mid-year Examinations.
February 13Lectures begin.
June 4-7Final Examinations.

Vacations and Special Days uniform with the College of Liberal Arts.

HISTORICAL

The Maclay College of Theology was founded about twenty years ago by State Senator Charles Maclay in a generous endowment of lands in the San Fernando Valley. Rev. R. W. C. Farnworth, presiding elder of the Los Angeles District, was its first dean, the faculty being completed by the appointment of Reverends Fletcher B. Cherington and James Blackledge. On the death of Dean Farnsworth, the Rev. R. S. Maclay, D.D., the veteran missionary from the Orient, was called to the headship of the college which bears his name. When advancing years and failing strength caused the resignation of Dr. Maclay, the Rev. George Cochran, D.D., was called to succeed him.

Through all this period the college had been doing excellent work, coming about the time of the succession of Dr. Cochran from its home in the San Fernando Valley to the

immediate neighborhood of the College of Liberal Arts in Los Angeles.

In the hard times of 1893 the trustees thought it expedient to close the Maclay College until its resources should warrant the continuance of its work. At the session of the Southern California Annual Conference in 1907, on the urgent request of the conference, the decision was made to resume work in theology, and its present dean, Rev. E. A. Healy, D.D., was appointed.

The intimate relation of Maclay College to the College of Liberal Arts is of great advantage to both, appearing in the convenience of location on the same campus, and the interchange of credits where subjects are common to the two colleges.

It is the aim of the College of Theology to do all that is possible to furnish the churches of our constituency with preachers who shall be at once scholarly and evangelical, and pastors who shall be apt and successful in their difficult work.

In pursuance of this aim the following courses are arranged with the specified conditions of admission:

1. **The Degree Course.** A three years' course for students who have obtained the A.B. degree. The completion of this course will entitle the graduate to the degree of Bachelor of Divinity.

2. **The Diploma Course.** This is also a three years' course, open to students who have the equivalent of junior standing in the College of Liberal Arts. The Maclay College Diploma will be granted to graduates in this course.

3. **Special Students.** Applicants will be admitted as special students to classes that, in the judgment of the Faculty, they can enter with advantage, and certificates will be given for all subjects satisfactorily taken.

ADMISSION

A license to preach will be a sufficient credential. Those not so qualified may present a certificate from their pastor as to their fitness to study for the Christian ministry, or for other religious work.

COURSES

Classical Course Degree

Church History.
Practical Theology.
Greek (Elementary).
Hebrew.
Biblical Introduction.
Systematic Theology.

Greek-English Course Diploma

Church History.
Practical Theology.
Greek (Elementary).
Biblical Introduction.
Systematic Theology.

English Course Certificate

Church History.
Practical Theology.
Biblical Introduction.
English Literature and Expression.
Systematic Theology.

MIDDLE CLASS

Church History.
Practical Theology.
Systematic Theology.
Greek (N. T.)
Hebrew.

Church History.
Practical Theology.
Systematic Theology.
Greek Testament.
English Exegesis.

Church History.
Practical Theology.
English Exegesis.
Systematic Theology.
English Literature and Expression.

SENIOR CLASS

Systematic Theology.
Historical Theology.
Practical Theology.
Greek (N. T.)
Hebrew.
Apologetics.
Sociology.
Sacred Oratory.

Systematic Theology.
Practical Theology.
Greek Testament.
Sociology.
Sacred Oratory.

Systematic Theology.
Practical Theology.
English Exegesis.
English Literature and Expression.
Apologetics.
Sociology.
Sacred Oratory.

DEPARTMENTS OF INSTRUCTION

Apologetics. The whole subject of the defensive facts and proofs of Christianity is included in this general term. Primarily it is found in the courses in the English Bible, given by Professor Hill, including Hermeneutics and Christian Evidences. Historical and Systematic Theology contribute to the full equipment of the student in this wide field.

BIBLICAL INTRODUCTION.

Christian Evidences—Foundations of Faith.

Professor Hill.

This course will take up those phases of thought and facts of life that confront the student of today. The idea of God and the divine immanence; man and the legitimacy of the religious principle in the human constitution; the Bible as a revelation of God's relation to, and purpose concerning man's life and destiny; the facts of conversion and the history of Christianity as witnesses to the divine origin of the system; and a consideration of the assumptions of modern cults which oppose or offer themselves as substitutes for Christianity.

CHURCH HISTORY.

Professor Coultas.

In this subject the work begins with the Life and Times of Christ, and progresses through the Apostolic, Mediaeval and Middle Ages to Modern Times.

The history of doctrine is traced from the beginning; special care is taken with the great movements of the Church, such as the Reformation, the Wesleyan Revival, and the Church in America, including the history of American Methodism. Bishop Hurst's volumes are made a basis, but wide reference is had to standard authors.

EARLY ENGLISH BIBLE.

Professor Dixon.

Lectures on Early English translations, with readings from the first and the earlier English Gospels are given by the head of the Department of English, and afford a rare opportunity in a realm of great interest.

ENGLISH LITERATURE AND EXPRESSION.

This very important part of a preparation for the ministry is given a prominent place. In addition to the full courses in the College of Liberal Arts, special opportunity for study and training in interpretation and expression is afforded in the College of Oratory, which is conveniently located near Maclay College.

SACRED ORATORY.

In the Senior year, in each course, a minimum of two hours per week in the College of Oratory is required.

NEW TESTAMENT GREEK.

Professor Owen.

Those who have had no previous training in the Greek language will register for course 1 in the College of Liberal Arts.

2. **The Gospel according to John** will be studied as a basis for mastering the language of the New Testament. Harper and Weidner's Introductory Greek Method will be used throughout the year. Two hours, both semesters. 2:00 Tuesday and Thursday.

3. **The Gospel according to Luke**; selections from the Acts, Epistle of James, Intensive Grammar and Syntax drill; word derivations and synonyms. Two hours (hours to be arranged).

HEBREW LANGUAGE AND HISTORY.

Professor James Blackledge.

The main object of instruction in this department is the securing of a good reading knowledge of the Hebrew text; hence during the first two years of the course special attention is given to oral class-reading exercises—the fundamental principles and rules underlying the Hebrew language—the origin of grammatical forms, with some exegetical study during the second semester of the second year.

A greater part of the first two years is devoted to the study of the text of the Pentateuch. During this time the student is requested to look up the inscriptions of Israel's neighbors—the Assyrians and Babylonians—in the library, with the view of aiding in the study of the text.

The principal object of our method of instruction is, by constant review, and frequent composition exercises, to make an otherwise dry study, as interesting as possible. During the latter half of the course will be taken up the studies in Messianic prophecy, with more exegetical work; exegetical studies in the minor prophets, and a critical study of the Book of Job. During the last semester of the course there will be grammatical, critical and exegetical studies of selections from the Book of Psalms. During the entire course occasional lectures will be given on the Old Testament and related subjects.

The effort is, not to read meanings into the passages considered, but to get the original author's exact viewpoint. This is often a most difficult task and calls for modern scientific methods of application in exegesis. To obtain the exact idea intended by the author, the interpretative principles, methods and rules must be learned and applied. Some knowledge of the Greek language will be helpful. Two hours throughout the year. Tuesday and Thursday (hours to be arranged).

Prerequisite, Bible 1, 2, 3, 4.

HOMILETICS

Doctor Hughes

Kern's "The Ministry to the Congregation" is made the basis for instruction in this chief work of the preacher in connection with the subject of Pastoral Theology.

Dr. Hughes gives one lecture a week on this important subject, and is attracting, in addition to the regular theological students, many ministers who have been long in the pastoral work. His style is strong and clear and holds one's interest to the last sentence. His range of subjects covers the whole field of the pastor's life and work. The place of Pastoral Theology; the history, theory, and practice of preaching; the call to the ministry; the preparation to be added to nature's qualifications for the work; the history, constitution and development of the church; what the church does for the pastor, and the pastor's obligation to the church; relation of children to the church, and of the pastor to the children; the minister and his brethren; the pastor and the Sunday school; the pastor and the literature of the church; his use of books and libraries; methods and means of worship; pastoral visitation; the institutional church; the minister and social problems—such themes and many others, treated in the trenchant style of Dr. Hughes, comprise a course of living interest and great value. Christian workers and others interested are admitted to these lectures.

THE HISTORY OF CHRISTIAN MISSIONS.

Professor Coultas.

This course requires two semesters. The first begins with Paul, A. D. 46, and continues to Carey, A. D. 1792. It briefly considers the condition of the world when Paul and Barnabas leave Antioch in the year 46, and studies the missionary spirit that manifested itself to Carey's time under the following agencies: promiscuous, governmental, papal, monastic, mendicant orders, military power, Jesuits, colonization,

and denominational. The second semester deals with modern missions, their past, present and promise.

Lectures on Comparative Religions are given to classes in this subject.

SOCIOLOGY.

Professor Hunt.

Principles of Sociology. Elements of social theory. The structure, development and activities of human society. A comprehensive study of the social process and social ends, with frequent application to concrete conditions. Three hours, first semester.

Social Theories. A comparative study of the writings of leading sociologists of the present day. Extensive library work and frequent student reports are among the requirements. Three hours, second semester.

With permission of the Dean and the Department of Sociology, students may substitute for Social Theories:

Charities and Corrections. Studies in social pathology, poverty and philanthropy, the dependent classes, public and private administration of charities. The class visits charitable and reformatory institutions in Los Angeles and vicinity to study conditions and methods of social betterment. Three hours.

SYSTEMATIC THEOLOGY.

Dean Healy.

In the Junior year the textbook is "The Christian Faith" (Curtis). In the middle year the "System of Christian Doctrine" (Sheldon). While these works form the basis of study for the students out of class, a wide reference to authors, old and new, is encouraged, and all is supplemented by lecture and question in the class-room hour.

In the Senior year research in the library, and current theological literature, with essays on assigned subjects, and a

continued attendance in the lecture-room will complete the work in this important field.

FEES AND EXPENSES.

Tuition in Maclay College is free.

A registration fee of \$12.00 a semester is charged.

A generous concession is made by the College of Oratory in favor of Maclay students. A fee of five dollars per semester is charged for the work required in Sacred Oratory.

Lectures by men and women of eminence in special fields are frequently given in the Assembly Hall and are free to all our students.

Students taking any one of the three courses will be allowed three hours in each semester, free of charge, in the College of Liberal Arts.

Free residence in the Maclay College Building is provided for a limited number. Rooms will be assigned in the order of accepted applications.

Numerous churches in the vicinity of Los Angeles find pastors among our students, and our District Superintendents are glad to make such arrangement where it is mutually satisfactory.

An information and employment bureau is maintained by the University Y. M. C. A., which is very helpful to those who wish to support themselves while in attendance at colleg.

Any additional information promptly given on application to

E. A. HEALY, Dean, Maclay College,

University, Los Angeles, Cal.

PREPARATORY SCHOOL

CALENDAR

1911

September 12-14.....Entrance Examinations and Registration for First Semester.

September 15 (Friday).....Recitations begin.

November 23-24.....Thanksgiving Vacation.

December 18 (Monday)....Christmas Vacation begins.

1912

January 1 (Monday).....Christmas Vacation ends.

January 25 (Thursday).....Day of Prayer for Colleges.

January 29-February 6.....Mid-Year Examinations.

February 9 (Friday).....Instruction for Second Semester begins.

February 22 (Thursday)....Washington's Birthday.

March 25-31.....Spring Vacation.

June 3-11.....Final Examinations.

June 12 (Wednesday).....Graduation Exercises.

THE PREPARATORY SCHOOL.

The Preparatory School is maintained in connection with the College of Liberal Arts. All of the instruction in the Preparatory School is under the supervision of the college faculty, thus insuring the best preparation for entrance to

college. The students enjoy all the general advantages open to students in the College, including library, lectures, laboratories, religious and social privileges.

While the work of this school is mainly that of preparing students directly for the College, yet without lessening the work in this direction, the authorities realize the importance of giving increased attention to the large number of young people who desire academic instruction, but do not wish to devote the necessary time and means to secure a collegiate education. For this large and worthy class, the school purposes to provide sufficient facilities, so that in the limited time at their command they may acquire some preparation for their future work.

Requirements for Admission.

Applicants must have finished work equivalent to that required for admission to the high schools. They must show evidence of fitness to begin the work of the classes in the school. Persons who wish to take a partial course, or to select their studies, can enter the preparatory school without a formal examination, and pursue such subjects as they may be prepared to take.

Registration.

The method and regulations in registration are the same as those in the College of Liberal Arts.

Absence from Exercises.

The rules and regulations concerning absences from required exercises are the same as in the College of Liberal Arts.

Assembly.

The Assembly period is 11:45 to 12:10 Monday, Tuesday, Thursday and Friday of each week. Attendance is required. Wednesday of each week, at the chapel period, the Young Men's and the Young Women's Christian Associations hold their respective devotional services, to which the students are cordially invited.

Reports.

Reports of standing are sent to the parent or guardian of all students each month. The Faculty desire the co-operation of parents in their efforts to maintain a high grade of scholarship and deportment.

Graduation and Diplomas.

The Preparatory School has a special evening set aside in commencement week for its graduation exercises.

Each student who completes one of the regular courses of study will be granted a diploma.

Literary Societies.

The Webster Literary Society is composed of young men who meet each week for training in public speaking.

The Willard and Annesley Literary Societies are composed of young women who meet each week for training in literary work.

Prizes.

A prize of ten dollars is offered to the student who wins in contest in declamation.

The University offers to its representative in the Inter-scholastic Oratorical Contest, a semester scholarship in the third, or fourth year, Preparatory School (value \$40); and an additional semester scholarship in the third or fourth year, if said representative wins first place in the Inter-scholastic Contest.

The scholarship is not transferable.

Rooms and Board.

Students are required to submit to the Faculty a statement of the places where they desire to room and board, and must secure their consent in each case.

Board and furnished rooms can be secured in private families at from three dollars to five dollars per week. Furnished rooms accommodating two students cost from four to eight dollars per month.

Other expenses incident to school life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the school for want of money.

General Information.

For general information concerning location of school, religious privileges, library and reading room, the museum and the science laboratories, athletics and the gymnasium, see under College of Liberal Arts.

FEEES AND EXPENSES.

Tuition, per semester, in advance	\$40.00
Tuition, per year (two semesters) if paid in advance.....	80.00
Tuition, for six to ten hours, per semester.....	30.00
Tuition, for five hours, or less, per semester.....	20.00
(Hours as used above means so many hours per week.)	
Athletic fee, required of all students.....	2.00
Gymnasium and Physical Education taken without other studies, per semester	8.00
Registration fee included in above, but not subject to rebate	5.00
Diploma fee	5.00
Laboratory fees—	
Chemistry	8.00
Physics	4.00
Botany	4.00
Zoology	4.00

An additional deposit of five dollars to cover breakage is required in Chemistry. This deposit, less cost of breakage, is refunded at the end of the year.

The children of ministers in the regular work of any evangelical denomination may have their tuition reduced to one-half the regular rate.

A discount of ten per cent of the tuition will be allowed when two or more students enter from the same family.

No rebate will be allowed for less than one-half a semester's enforced absence.

For further information address

PRESIDENT GEORGE F. BOVARD,

Los Angeles, California.

COURSES OF STUDY

The regular courses of study are four in number, any one of which is designed to prepare students to enter the College of Liberal Arts, or institutions of similar standing. A student who has completed one of these courses is admitted to the College without examination.

	A	B	C	D
1st YEAR	5 ENGLISH, 2:00 5 LATIN, 8:55 or 1:05 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 2:00 5 LATIN, 8:55 or 1:05 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 2:00 5 LATIN, 8:55 or 1:05, or GERMAN, 9:55 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 2:00 5 GERMAM, 9:55 5 ALGEBRA, 10:50 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05
2nd YEAR	5 ENGLISH, 1:05 5 LATIN, 8:55 5 ANC. HIST., 2:00 4 BOTANY, Recit. 10:50 M.W., Lab. 9:55, M.W. 9:55-10:50 T.Th. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 1:05 5 LATIN, 8:55 5 ANC. HIST., 2:00 4 BOTANY, Recit. 10:50 M.W., Lab. 9:55 M.W. 9:55-10:50 T.Th. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 1:05 5 LATIN, 8:55, or ② GERMAN, 5 ALGEBRA, 9:55 4 ZOOLOGY, Recit. 2:00 M.W., Lab. 2:55 M.W., 2:00-2:55 T.Th. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05	5 ENGLISH, 1:05 5 ② GERMAN, 10:50 5 ALGEBRA, 9:55 5 DRAWING, 8:55-12:10 M.W., 1:05-3:50 M.T.W. 2 GYM., Boys, 2:00, 2:55, 3:50 Girls, 9:55, 10:50, 1:05
3rd YEAR	5 GREEK, 10:50 5 LATIN, 2:00 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55	5 ENGLISH, 8:00 5 LATIN, 2:00 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55	5 Elective ③ 5 CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55 W.Th. 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55	5 Elective ③ 5 CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55 W.Th. 5 PL. GEOM., 8:55 5 AMER. HIST., 9:55
4th YEAR	5 GREEK, 9:55 5 LATIN, 8:00 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F. or CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55, W.Th. 5 Elective ①	5 Elective ④ 5 LATIN, 8:00 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F. or CHEM., Recit. 10:50 T.Th.F., Lab. 1:05-2:55, W.Th. 5 Elective ④	5 Elective ① 4 BOTANY, Recit. 10:50 M.W., Lab. 9:55 M.W. 9:55-10:50 T.Th. 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F. 5 Elective ④	5 ① MATHEMATICS A, 8:00 T.W.Th. 5 DRAWING, 8:55-12:10 M.W., 1:05-3:50 M.T.W. 5 PHYSICS, Recit. 8:55 M.T.W., Lab. 1:05-3:50 Th.F. 5 Elective ④

NOTE — The figures denote the number of class recitations (or their equivalent in laboratory work and drawing) per week.

① Mathematics A, includes Trigonometry, Solid Geometry and a review of Algebra.

② Students who have received credit for two years of German, and who intend to take up German 2 in their freshman year in College, must review the second semester of German 1 (College) in their last semester in the Preparatory School.

③ Electives in the Third year are English, Latin, German.

④ Electives in the Fourth year are Greek, Latin, German, French, Spanish, English, Zoology, Botany, Mathematics A, Physics, Chemistry, Algebra, Anc. Hist.

DEPARTMENTS OF INSTRUCTION

ENGLISH.

FIRST YEAR.

First Semester.

1. Grammar and Composition. One hour a week.
2. Classics. Four hours a week.
 - a. Hawthorne's Twice-Told Tales.
 - b. Macaulay's Horatius.
 - c. Irving's Sketch Book.
 - d. Poetry of the People.

Second Semester.

1. Grammar and Composition. One hour a week.
2. Classics. Four hours a week.
 - a. Byron's Prisoner of Chillon.
 - b. Scott's Lay of the Last Minstrel.
 - c. Scott's Ivanhoe.
 - d. Poetry of the People.

SECOND YEAR.

First Semester.

1. Rhetoric and Composition. One hour a week.
2. Classics. Four hours a week.
 - a. Addison's Sir Roger de Coverley Papers.
 - b. Lowell's Vision of Sir Launfal and Commemoration Ode.
 - c. Classical and Teutonic Mythology.
 - d. Gray's Elegy.

Second Semester.

1. Rhetoric and Composition. One hour a week.
2. Classics. Four hours a week.
 - a. Shakespeare's Merchant of Venice.
 - b. Macaulay's Warren Hastings.
 - c. Coleridge's The Ancient Mariner.
 - d. Curtis' The Public Duty of Educated Men.

THIRD YEAR.**First Semester.**

1. Rhetoric and Composition. One hour a week.
2. Classics. Four hours a week.
 - a. Carlyle's Essay on Burns.
 - b. Milton's L'Allegro and Il Penseroso, Comus, Lycidas, Sonnets.
 - c. Goldsmith's Vicar of Wakefield.
 - d. George Eliot's Silas Marner.

Second Semester.

1. Rhetoric and Composition. One hour a week.
2. Classics. Four hours a week.
 - a. Shakespeare's Julius Caesar.
 - b. Tennyson's Idylls of the King.
 - c. Lincoln's Inaugurals, and Gettysburg Speech
 - d. Emerson's The American Scholar.

FOURTH YEAR.**First Semester.**

1. Themes: Exposition and Argument. One hour a week.
2. Classics. Four hours a week.
 - a. English Poetry: Chaucer to Browning.
 - b. Outline History of English Language and Literature.
 - c. Shakespeare's Macbeth.
 - d. Lowell's Democracy.

Second Semester.

1. Themes: Exposition and Argument. One hour a week.
2. Classics. Four hours a week.
 - a. Burke's Conciliation with the Colonies.
 - c. Webster's Reply to Hayne.
 - d. Thomas' Manual of Debate.

ENGLISH BIBLE.

Two courses of one hour each are offered for students in the Preparatory School—Old Testament, 10:50 Tuesday, first semester; New Testament, 10:50 Tuesday, second semester.

GERMAN.**First Year.**

Collar's Beginning German. This text book provides the material for the first year's course. It comprises studies in pronunciation, grammar, drill on the forms, elementary conversation, and various anecdotes and poems for translation and memorizing. Further interesting reading and material for conversation and composition is taken from Allen's Herein.

Second Year.

The grammar is finished and reviewed. Various modern German stories, poems, and plays are read and reproduced, both orally and in the form of written exercises.

The class work is conducted mainly in German, and the ability to read accurately and fluently and express simple thoughts in spoken and written German is required.

GREEK.**First Year.**

Benner and Smith's text is used throughout the year. The aim of the first year's work is thoroughly to acquaint the pupil with forms.

Second Year.

During this year the first four books of Xenophon's *Anabasis* are translated. Daily practice is given in sight reading. Pearson's *Greek Prose Composition* is used throughout the year. The work is made the basis of a thorough drill in grammar. Goodwin's *Greek Grammar* is used for reference.

Third Year.

Books I-IV of Homer's *Iliad* are read and translated. Practice in sight reading is given daily from Books V and VI. Scansion, forms, syntax and mythology are given special attention. Pearson's *Greek Prose Composition* is used throughout the year.

Note. Beginning classes in Greek are carried on in the College Department in which the work outlined above is covered in two years. Preparatory students who show special ability and strength in this subject are admitted to these College classes and are advised to avail themselves of this privilege. The same credit (three units) is given to Preparatory students in these classes as is granted in the Preparatory Department for the three years work.

HISTORY.

The work in History is carried on by means of text-books, lectures, essays, and library work. Constant reference is made to the atlas and dictionary, maps are drawn, essays required, and the topical method is used for special subjects. Full and carefully kept note-books are required in all the subjects in this department.

1. Ancient History. Greek and Roman History. One year.
2. American History and Civics. One year.

LATIN.**First Year.**

The aim of the first year's work is to attain an accurate pronunciation, a thorough knowledge of all the regular forms

of declension and conjugation, together with the simpler principles of syntax, and a vocabulary of about eight hundred common words.

Second Year.

Four books of Caesar's Gallic War are used. Regular forms are reviewed and essential irregular forms are learned in a systematic study of Latin grammar. There is regular practice in oral or written translation into Latin of exercises based on the text read, and slight translation is an important part of the year's work. Some attention is given to subject matter.

Third Year.

In the reading and interpretation of six of Cicero's orations the time is equally divided between language and subject matter. The grammar is thoroughly reviewed in regular oral or written composition based on the text. An attempt is made to gain a definite knowledge of Cicero and his age, of the Roman government in Cicero's time, and of the city of Rome. The simpler letters are read at sight.

Fourth Year.

The first six books of Vergil's Aeneid are read and interpreted. A special effort is made to approach the work as poetry. Prosody, figures of speech, mythological references, and poetical constructions are studied. Metrical reading is insisted upon. An idea of the Aeneid as a whole is gained by the sight reading of portions of the last six books. Two days each week are occupied during the first semester in a review of syntax and in prose composition.

MATHEMATICS.

The aim of the course in Mathematics is to cultivate the habits of independent reasoning, of accuracy of work, of precision and clearness in the statement of conclusions and the reason upon which they depend. First in importance is the intellectual training that makes the mind a ready and keen

tool; second, the orderly acquisition of facts. Absolute thoroughness and work that increases in amount and difficulty with the student's increasing capacity, are required. The student's efficiency is measured by his power to do. Throughout the course written reviews and test examinations are frequent.

ALGEBRA.

First Year.

Wentworth's New School Algebra, through Quadratics. Special emphasis is placed on factoring and on the solution of equations. The object of the study is not only to acquire a knowledge of the subjects required for admission to the leading universities, but to secure the mental discipline for its own sake, and such a drill as looks to the use of the algebraic method in future study.

Second Year.

Beman and Smith's Elements of Algebra. A review of the first year's work is taken, and the text book is completed. This work is supplemented by lectures on the theory of algebra, and these form a most important part of the course.

Third Year.

Fisher and Schwatt's Higher Algebra, two hours a week. This course is given as an elective for students of marked mathematical ability, and is open only to those who have taken second year algebra.

GEOMETRY.

1. Plane Geometry. One year. Careful attention is given to construction, clear and logical expression, and above all to the attainment of the power to do original work in geometry. The exercises of the text-book are supplemented by constant suggestions by the teacher for investigations.

2. Solid Geometry, four hours a week, during the first semester.

Trigonometry.

Plane Trigonometry, and a brief study of Logarithms and the solution of the Right Spherical Triangle, four hours a week, during the second semester.

DRAWING.**First Year.**

Ten hours a week.

Freehand Drawing: First Semester—Elementary line work from geometric solids and simple natural objects.

Second Semester, advanced line work in pencil from casts and still life, flat wash in black and color.

Second Year.

Ten hours a week.

Instrumental Drawing: First Semester—Linear drawing, simple geometric problems, lettering.

Second Semester, advanced geometric drawing, conic sections, projections.

PHYSICAL EDUCATION

Systematic class work. This consists of vigorous drill with dumb bells, clubs, bar bells, etc., for the men; for the women, general development exercises in walking and running, simple, free movements, recreative games and outdoor sports. Required of all first year students. Four hours a week.

Progressive graded work on various pieces of gymnastic apparatus, mat work and gymnastic games for the men; more difficult free movements, relaxing exercises, mat work, walking, drill, and dumb bells and games in the open air for the women. Required of all second year students. Four hours a week.

SCIENCE.**Biology.**

Botany and Zoology, each given as a full course of eight hours per week, for one year. The work in each is a combination of laboratory study, lectures and recitations, with a careful notebook record of the work actually done by the student under the direction of the teacher. The ground covered and the methods employed are such as fully meet the requirements of any college to which the student might desire to go.

Chemistry.

The subject of Chemistry continues throughout the year, and includes all the general principles theoretical and practical of inorganic chemistry, such as given in McPherson and Henderson, *Elementary Study of Chemistry*. Recitations and individual laboratory work occupy not fewer than seven hours per week. A special effort is made throughout to develop the scientific habit of thought and to lead the student to observe the chemical changes constantly taking place. In the laboratory each student is furnished with a desk and all necessary reagents and apparatus, and is required to keep a complete record of the work done during the year.

A laboratory fee of eight dollars per semester, and an additional deposit of five dollars is required. The loss by damage or destruction of apparatus will be deducted from the deposit of five dollars, and the balance refunded at the close of the semester.

Physics.

This course is designed to give the student a familiarity with the principal facts, laws and theories of Physics. This is accomplished by the careful study of a text and definite laboratory work for one year.

CATALOGUE OF STUDENTS

COLLEGE OF LIBERAL ARTS

The names of students are followed by the designation of their several classes (G., Graduate Student; Sr., Senior; J., Junior; S., Sophomore; F., Freshman; Sp., Special Student; U., Unclassified); the name of each student is followed also by an abbreviation indicating the degree for which he is a candidate, (A.B., Bachelor of Arts; B.S., Bachelor of Science; A.M., Master of Arts).

Ackerman, Ruth Lovilla.....	F., A.B.....	Los Angeles
Adams, Lucy Burwell.....	F., A.B.....	Los Angeles
Adamson, Jessie Alvira.....	S., A.B.....	Los Angeles
Adkinson, Katherine Wiley.....	S., A.B.....	Riverside
Allan, Roy Folger.....	J., A.B.....	Los Angeles
Allen, John A.....	G., A.M.....	Los Angeles
A.B., University of New Brunswick.		

Allen, Lawrence W.....	F., A.B.....	Los Angeles
Allin, Ray Lester.....	S., B.S.....	Pasadena
Amis, Anna Joyce.....	S., A.B.....	Los Angeles
Anderson, Frances Willard.....	F., A.B.....	Corcoran
Anderson, Hallam Hans.....	F., B.S.....	Los Angeles
Arakawa, Masuhiko	Sp.	Nagoya, Japan
Arnold, Ernest Leroy.....	F., A.B.....	Redlands
Atwood, Mary Emily.....	S., A.B.....	Monrovia
Avery, Emma Louise.....	F., A.B.....	Los Angeles
Ayers, Lucile Jane.....	F., A.B.....	Somis..
Ayres, Arthur H.....	G., A.M.....	Upland, Indiana
A.B., Central Holiness University.		

Bach, Welcome Lawrence.....	J., A.B.....	Ocean Park
Bachtell, Paul Bradshaw.....	F., A.B.....	Los Angeles
Bailey, Richard Kenneth.....	J., A.B.....	Los Angeles
Baker, Florence Blair.....	F., A.B.....	Los Angeles
Ball, Bessie	Sp.	Downey
Bangle, Leah Catharine.....	F., A.B.....	Long Beach

Bamesberger, John G.....	F., A.B.....	Long Beach
Barnhart, Percy Spencer.....	Sr., A.B.....	Los Angeles
Barrett, Roe Mitchell.....	S., A.B.....	Los Angeles
Basore, Carmon Cecil.....	F., B.S.....	Pasadena
Bassett, Helen Requa.....	F., A.B.....	Los Angeles
Bates, Alice L.....	U., A.B.....	Los Angeles
Beach, Everett, Charles.....	Sr., A.B.....	Los Angeles
M.D., Baltimore Medical College.		

Beal, William Wilson.....	Sr., B.S.....	Gardena
Beanblossom, David William.....	J., A.B.....	Los Angeles
Behymer, Enid Lynn.....	Sp.	Los Angeles
Behymer, Elsie Olive.....	Sp.	Los Angeles
Benkert, Robert	Sp.	Los Angeles
Benny, Leulah Blanche.....	F., A.B.....	Los Angeles
Benson, George Perry.....	F., B.S.....	Glendale
Benson, M. Faye.....	J., A.B.....	Los Angeles
Berryman, Olive Perkins.....	Sr., A.B.....	Los Angeles
Bien, Beulah V.....	Sr., A.B.....	Los Angeles
Bill, Leone Marjorie.....	F., A.B.....	Long Beach
Bingham, Beatrice Josephine.....	F., A.B.....	Los Angeles
Birdsall, Harriet E.....	U., A.B.....	Los Angeles
Blair, Maurice G.....	S., B.S.....	Los Angeles
Blewett, Grace Marie.....	S., A.B.....	Whittier
Blumenberg, Clara	S., A.B.....	Los Angeles
Blythe, Minor	Sp.	Los Angeles
Boardman, Lus M.....	S., B.S.....	Santa Monica
Bobey, Harry G.....	Sp.	Los Angeles
Bogart, Lawrence E.....	F., A.B.....	Long Beach
Boland, Mary Ellen.....	F., A.B.....	Los Angeles
Boller, Stanley	Sr., A.B.....	San Luis Obispo
Bomhoff, Grace Evelyn.....	F., A.B.....	Los Angeles
Bostlelman, Amalie Johanna.....	F., A.B.....	Los Angeles
Bostwick, Florence Fern.....	S., A.B.....	Los Angeles
Bostwick, Norris	S., B.S.....	Los Angeles
Bouelle, Frank A.....	U., A.B.....	Los Angeles
Bougher, Bert Cecil.....	S., A.B.....	Los Angeles
Bovard, Edna Georgina.....	J., A.B.....	Los Angeles
Bowers, Alice Teresa.....	S., A.B.....	Los Angeles
Bowers, Evelyn Cummings.....	J., A.B.....	Los Angeles

Bragonier, George David.....	F., A.B.....	South Pasadena
Brallier, Mrs. Mary Reber.....	F., A.B.....	Lewisburg, Pa.
Brewer, Elizabeth A.....	U., A.B.....	Los Angeles
Bridges, Ruth Gladys.....	J., A.B.....	Los Angeles
Briggs, Esther Montgomery.....	F., A.B.....	Los Angeles
Britton, Caroline Marguerite.....	U., A.B.....	Los Angeles
Brode, Alverda June.....	Sr., A.B.....	Los Angeles
Brode, Lawrence Partridge.....	J., B.S.....	Los Angeles
Brooks, Donald Beresford.....	S., A.B.....	Pasadena
Brooks, Harold Bissell.....	Sp.	Erie, Penn.
Brown, Arthur C.....	U., A.B.....	Los Angeles
Brown, Maggie J. E.....	Sr., A.B.....	Los Angeles
Brown, James Lorin.....	Sr., A.B.....	Los Angeles
Brown, Laura Elizabeth.....	F., A.B.....	Los Angeles
Bruckman, Clara L.....	F., A.B.....	Los Angeles
Bryant, John Scott.....	F., A.B.....	Los Angeles
Buehner, Valentin	G., A.M.....	Los Angeles

A.B., Stanford University.

Bulkley, Paul	U., A.B.....	Los Angeles
Burk, Earl Elihu.....	Sr., A.B.....	Los Angeles
Burdick, Ruth Josephine.....	F., A.B.....	Los Angeles
Burleson, Frank Edward.....	J., A.B.....	Los Angeles
Burmaster, Huston William.....	S., A.B.....	Muncie, Indiana
Burmaster, Laura Elise.....	J., A.B.....	Los Angeles
Burnight, Lillian Alice.....	S., A.B.....	Redlands
Butler, Ruth Frances.....	F., A.B.....	Los Angeles
Butterfield, Oliver McKinley.....	F., A.B.....	Chino
Cain, Gertrude Belle.....	F., A.B.....	Los Angeles
Call, Ara Vickrey.....	F., A.B.....	Los Angeles
Calvert, Cecil	F., A.B.....	Los Angeles
Campbell, Harold Harrison.....	F., A.B.....	Hawthorne
Candee, William Horace.....	S., B.S.....	Hollywood
Canfield, Alta Naomi.....	F., A.B.....	Whittier
Canfield, Della Leila.....	F., A.B.....	Whittier
Carroll, Frank	Sr., A.B.....	Gardena
Carson, Joseph Randall.....	S., A.B.....	Hollywood
Carter, Jessie Merle.....	F., A.B.....	Los Angeles
Caster, Grover V.....	F., B.S.....	Whittier
Chaffee, Frank Everett.....	F., A.B.....	Pasadena

Chaffee, Ralph Horace.....	F., A.B.....	Wattsburg, Pa.
Chamberlin, Albert Frank.....	F., A.B.....	Pasadena
Chambers, Rofena Belle.....	F., A.B.....	Los Angeles
Chambers, Walter Lovell.....	U.	Hollywood
Chapman, G. Arthur.....	F., A.B.....	Los Angeles
Charles, Helen	F., A.B.....	Los Angeles
Christopher, Edward Linn.....	J., B.S.....	Lankershim
Cist, Mary Elizabeth.....	S., A.B.....	Los Angeles
Claberg, Clay	F., A.B.....	Santa Paula
Clardy, Grady	J., A.B.....	Santa Ana
Clark, Alice B.....	F., A.B.....	Los Angeles
Clark, Lynn	F., A.B.....	Los Angeles
Clark, Lola Bliss.....	S., A.B.....	Los Angeles
Clay, Jennie Carlie.....	S., A.B.....	Los Angeles
Clayton, Harry	F., A.B.....	Orange
Cocks, Edna Agnes.....	Sr., A.B.....	Willows
Cohn, Thomas Martin.....	F., A.B.....	Los Angeles
Coleman, David	F., B.S.....	Los Angeles
Collins, Laura Alice.....	U., A.B.....	Los Angeles
Collison, John Clyde.....	G., A.M.....	Los Angeles

A.B. University of Southern California.

Consigny, Venita Ormsby.....	S., A.B.....	Los Angeles
Cone, Ruby Vernell.....	J., A.B.....	Dinuba
Conzelman, William Lewis.....	F., A.B.....	St. Louis, Mo.
Cook, Clarence Westgate.....	Sr., A.B.....	Los Angeles
Cook, Florence Marie.....	S., A.B.....	Los Angeles
Cooper, Carl Vincent.....	S., A.B.....	South Pasadena
Cooper, Judge	J., A.B.....	Corona
Cooper, Leslie Judson.....	Sr., A.B.....	South Pasadena
Coplin, Josie Eva.....	F., A.B.....	Los Angeles
Corbin, John Walker.....	Sp.	Los Angeles
Corey, Ida May.....	F., A.B.....	Los Angeles
Coykendall, James Marion.....	S., A.B.....	Aurora, Nebraska
Crinklaw, Charles Brooks.....	S., A.B.....	Oxnard
Crocker, Roy P.....	F., A.B.....	Los Angeles
Cronemiller, Flora May.....	Sp.	Los Angeles
Crossman, Ralph	Sp.	Los Angeles
Crouch, Virginia F.....	U., A.B.....	Los Angeles
Crowley, Harry Arthur.....	F., A.B.....	Pasadena

Dale, Ruth Florence.....	Sr., A.B.....	Treton, Iowa
Dalton, Margaret Elizabeth.....	F., A.B.....	Los Angeles
Davenport, Allen George.....	F., B.S.....	Tropico
Davidson, Joseph George.....	Sr., A.B.....	Long Beach
Davis, Robert Stephens.....	F., A.B.....	Los Angeles
Day, Florence Beatrice.....	F., A.B.....	Anaheim
de Bey, Joanna Marie.....	F., A.B.....	Hollywood
De Camp, Lura Marie.....	S., A.B.....	Los Angeles
Dexter, Earl Francis.....	S., A.B.....	Riverside
Drakin, Stanley McClure.....	F., A.B.....	San Diego
Dick, Samuel Finley.....	Sr., A.B.....	Glendale
Dickens, Maude E.....	U., A.B.....	Los Angeles
Dickerson, Ella J.....	F., A.B.....	Redlands
Diels, Harry Alvin.....	F., A.B.....	Fremont, Nebr.
Dimmick, Walter Lloyd.....	J., B.S.....	Oxnard
Doty, Lawrence G.....	U.	Los Angeles
Douglas, Maud E.	U., A.B.....	Los Angeles
Dowds, Roy Wilson.....	J., A.B.....	Los Angeles
Dragstrem, Rolla Henderson.....	Sp.	Waynesville, Ill.
Draper, Ella Martin.....	Sr., A.B.....	Ontario
Dresslar, Martha	S., A.B.....	Los Angeles
Dull, Florence De Ette.....	U., A.B.....	Los Angeles
Durfy, Leland James.....	F., B.S.....	Sherman
Eaton, Arthur Lincoln.....	S., A.B.....	Los Angeles
Eaton, Ralph J.....	F., B.S.....	Los Angeles
Eccleston, Earle Stevens.....	S., A.B.....	Los Angeles
Edson, Katharine	Sp.,	Los Angeles
Edwards, Lyman Elmer.....	G.	Los Angeles
Ph.B., Drake University.		

Eklund, Ernest E.....	F., B.S.....	Los Angeles
Elliott, Harry Charles.....	J., A.B.....	Fullerton
Elwood, Roby Theresa.....	U., A.B.....	Alhambra
Erwin, Douglas James.....	S., A.B.....	Sacramento
Ewing, Carl P.....	F., A.B.....	Hollywood
Felker, Anna Mary.....	S., A.B.....	Pasadena
Felts, Clare	F., A.B.....	Hollywood
Ferguson, Catherine Louise.....	J., A.B.....	Los Angeles
Ferguson, Margaret	F., A.B.....	Alhambra
Ferguson, Maude M.....	Sr., A.B.....	Los Angeles

Field, Clara L.....	Sp.	Los Angeles
Finch, Mildred Ruth.....	F., A.B.	Los Angeles
Fisher, Ruth L.....	S., A.B.	Los Angeles
Fitch, Frank Brewer.....	G., A.M.	Los Angeles
Fletcher, Katheryn	S., A.B.	East Highlands
Foell, George	U., A.B.	Hollywood
Franklin, Edwin Clay.....	F., B.S.	Los Angeles
Fredenburg, Pauline	J., A.B.	Gardena
Freeman, Cora B.....	U., A.B.	Los Angeles
Freeman, Ernest Irven.....	J., B.S.	San Diego
Gantz, Flo Allene.....	S., A.B.	Los Angeles
Garrett, Mrs. Mazie Fullman.....	Sp.	Los Angeles
Gates, Austin B.....	G., E.E.	Alhambra
Gates, George David.....	F., B.S.	Alhambra
Gaud, Margaret	U., A.B.	Los Angeles
Gerard, Beulah Elinor.....	F., A.B.	Ocean Park
Getty, Jean Paul.....	Sp., A.B.	Los Angeles
Gholz, Edwin LeRoy.....	F., B.S.	Pasadena
Gholz, Walter Irvin.....	Sr., A.B.	Pasadena
Gilbert, Howard Eugene.....	S., A.B.	Compton
Gilley, Dorothy	J., A.B.	Los Angeles
Gilson, Lewis Edward.....	S., A.B.	Los Angeles
Glockner, Lulu Gertrude.....	U., A.B.	Los Angeles
Godbe, Earl Thompson.....	S., A.B.	Los Angeles
Gooch, Leona	F., A.B.	Rivera
Good, Rita Catherine.....	F., A.B.	Fullerton
Goodsell, Joy G.....	J., B.S.	Tropico
Gosnell, Ruth Evelyn.....	F., A.B.	Los Angeles
Gould, Jesse A.....	S., A.B.	Los Angeles
Goulet, Frank X.....	U., A.B.	Los Angeles
Gower, John T.....	S., B.S.	Hollywood
Graetz, Norma Marie.....	U., A.B.	Los Angeles
Grant, Louise	U., A.B.	Los Angeles
Gray, Albert William.....	Sr., A.B.	Los Angeles
Gray, Lester Marion.....	F., A.B.	Los Angeles
Grainger, Kyle Z.....	J., A.B.	Los Angeles
Grant, Agatha C.....	S., A.B.	Los Angeles
Gregory, Mrs. Mabel C.....	U.	Los Angeles
Guerrero, Carlos Tomas.....	F., B.S.	Mexico

Guice, Mae Willard.....	F., A.B.....	Los Angeles
Haddock, Guy Randolph.....	F., B.S.....	Norwalk
Halfpenny, Ida Belle.....	Sr., A.B.....	Ontario
Hall, Boyden G.....	S., A.B.....	Huntington Beach
Hall, Charles Walter.....	F., B.S.....	Lindsay
Hall, Walter Alexis.....	Sr., B.S.....	Huntington Beach
Hamilton, Arthur Philip.....	F., A.B.....	San Pedro
Hampton, Lorenzo Arnie.....	Sr., A.B.....	Fullerton
Hanna, Tacie May.....	Sr., A.B.....	Colton
Hannahs, James Ray.....	Fr., A.B.....	San Jacinto
Hansen, Julius	Sp.	Fresno
Harris, Ethel Cordelia.....	S., A.B.....	Compton
Hasegawa, Shinichiro	U., A.B.....	Los Angeles
Haskell, Donald Benjamin.....	F., A.B.....	Los Angeles
Hatch, William Henry	S., A.B.....	Whittier
Hatfield, Clara C.....	J., A.B.....	Los Angeles
Hawk, Helen Marie.....	G., A.M.....	Los Angeles

A.B., University of Southern California.

Hazzard, Helen Gveta.....	F., A.B.....	Whittier
Hearne, Edith Irby.....	F., A.B.....	Long Beach
Heizman, Edwin H.....	F., A.B.....	Los Angeles
Henderson, Carl Rankin.....	F., A.B.....	Los Angeles
Henderson, Randall Thomas.....	Sr., A.B.....	Los Angeles
Henry, George W.....	F., A.B.....	Los Angeles
Henshey, Howard Blair.....	F., A.B.....	Los Angeles
Hepner, Walter Ray.....	S., A.B.....	Covina
Hess, Gladys F.....	F., A.B.....	Los Angeles
Higgins, David Jordan.....	G.	Pasadena
Hill, Arthur Louis.....	F., A.B.....	Los Angeles
Hitt, Eleanor	Sr., A.B.....	Los Angeles
Hoashi, Riichiro	Sp.	Los Angeles
Hodgdon, Frances Ellen.....	F., A.B.....	Whittier
Hogoboom, William Coryell.....	S., B.S.....	Los Angeles
Hogsette, Grace Wise.....	S., A.B.....	Los Angeles
Hollan, Margaret Frances.....	S., A.B.....	Los Angeles
Holleran, Nora	U., A.B.....	Los Angeles
Holmes, Dora A.....	U., A.B.....	Los Angeles
Horstmann, Elsa Henrietta.....	F., A.B.....	Los Angeles

M.D., University of Southern California.

Hough, Henrietta	U., A.B.....	Pasadena
Houghton, William Q.....	Sp.	Rivera
Hughes, Blakeney W.....	F., A.B.....	Pasadena
Hughes, George Addison.....	U.	Venice
Humeston, Harold Bruck.....	F., A.B.....	Los Angeles
Hummel, Edward John.....	S., A.B.....	Los Angeles
Humphrey, Helen Rosebrook.....	J., A.B.....	Glendale
Hunter, Fanny	S., A.B.....	Los Angeles
Hunter, Graham Burgess.....	F., A.B.....	Los Angeles
Hurst, Florence Louise.....	Sr., A.B.....	Los Angeles
Huston, Luther Allison.....	J., A.B.....	Tacoma, Wash.
Hyne, John Raphael.....	F., B.S.....	Oceanside
Illiff, Ruth Margaret.....	Sr., A.B.....	Whittier
Ingalls, Everett A.....	J., A.B.....	Los Angeles
Innes, Robina Ann.....	F., A.B.....	Banning
Inwood, Grace Agnes.....	S., A.B.....	Redlands
Jackson, Herbert Ladd.....	S., B.S.....	Hollywood
Jackson, Wayne B.....	S., A.B.....	Hollywood
Jacoby, Arthur David.....	F., A.B.....	Los Angeles
James, Everett Rockwell.....	Sr., A.B.....	Hollywood
Janes, Errol Prosser.....	F., A.B.....	Ontario
Jeffers, Anna T.....	Sp.	Los Angeles
Jessup, Mary Catharine.....	S., A.B.....	Los Angeles
Johnson, Eda Lydia.....	Sp.	Los Angeles
Johnston, Helen Allegra E.....	F., A.B.....	Los Angeles
Johnston, Inez	J., A.B.....	Los Angeles
Jones, Elizabeth T. E.....	F., A.B.....	Pasadena
Kaprielian, Michael Caspar.....	S., B.S.....	Fresno
Kast, Emma Johana.....	F., A.B.....	Los Angeles
Keeney, Florance Alice L.....	Sr., A.B.....	Jordan, New York
Kellar, Mary Jane.....	F., A.B.....	Los Angeles
Kellar, Stewart	S., B.S.....	Los Angeles
Kettler, Anna Marguerite.....	F., A.B.....	Gardena
Kienle, John Emmanuel.....	G., A.B.....	New Orleans, La.
Kingcade, Lily	F., A.B.....	Long Beach
Kirchhoffer, Richard Aenslie.....	F., A.B.....	Los Angeles
Knopf, Carl Sumner.....	S. A.B.....	Los Angeles
Knott, James Proctor.....	S. A.B.....	Los Angeles
Koho, Fujisawa	F., B.S.....	Los Angeles

Krowl, William	F.,	A.B.....	Los Angeles
Kuhnle, Carl Herman.....	J.,	A.B.....	Los Angeles
Kunle, Alfred Emil.....	S.,	B.S.....	Los Angeles
Kuykendall, Alfred	Sr.,	A.B.....	Los Angeles
La Fetra, Gladys Adelaide.....	F.,	A.B.....	Los Angeles
Lafferty, John Sam.....	F.,	A.B.....	Los Angeles
La Porte, William Ralph.....	S.,	A.B.....	Riverside
Larson, Wendell E.....	F.,	A.B.....	Los Angeles
Launer, Albert O.....	F.,	A.B.....	Fullerton
Lawrence, Arthur Douglas.....	J.,	A.B.....	Los Angeles
Lawrence, Chester	Sp.		Los Angeles
Layne, Newton Mead.....	G.,	A.M.....	San Diego
A.B., University of Southern California.			

Lee, Guy Gerald.....	S.,	A.B.....	Los Angeles
Leisure, Hoyt	F.,	A.B.....	Covina
Liang, Hing Luen.....	S.,	A.B.....	Canton, China
Lisenby, Carl A.....	F.,	A.B.....	Fresno
Livoni, John Peter.....	Sr.,	A.B.....	Santa Monica
Locke, Neil M.....	F.,	A.B.....	Riverside
Locke, Ruth Wood.....	J.,	A.B.....	Los Angeles
Loly, Kathleen Dorothy.....	J.,	A.B.....	Los Angeles
Long, Ethel	F.,	A.B.....	Hanford
Long, Emmet Stemen.....	F.,	B.S.....	Los Angeles
Longshore, Milton M.....	S.,	A.B.....	Los Angeles
Loud, Harold Lester.....	S.,	A.B.....	St. Louis, Mo.
Lovejoy, Ora Augusta.....	U.,	A.B.....	Los Angeles
Lowther, Mildred Anna.....	F.,	A.B.....	Hollywood
Lowry, Paul	S.,	A.B.....	Los Angeles
Loy, Harold M.....	F.,	B.S.....	Los Angeles
Lund, Le Valley.....	F.,	A.B.....	Los Angeles
McCarthy, Elizabeth Carroll.....	U.,	A.B.....	Los Angeles
McClara, Wilbert Hull.....	F.,	B.S.....	Los Angeles
McClellan, Leslie N.....	Sr.,	B.S.....	Riverside
McCloskey, Pearl Louise.....	S.,	A.B.....	Los Angeles
McConnell, Douglas Drew.....	F.,	B.S.....	Los Angeles
McCorkle, Annie Rowland.....	J.,	A.B.....	Los Angeles
McCorkle, Julia Norton.....	F.,	A.B.....	Los Angeles
McCray, Aaron Calvin.....	J.,	A.B.....	Los Angeles
McEndree, Fay N.....	Sr.,	A.B.....	Los Angeles

McEuen, William Wilson.....	Jr., A.B.....	Los Angeles
McFarland, Harry Blaine.....	F., A.B.....	Laton
McGorray, Jeannette	U., A.B.....	Los Angeles
McGregor, Mae Kathleen.....	F., A.B.....	Salt Lake City, Utah
McLaughlin, Robert Delamere.....	F., A.B.....	Los Angeles
McManis, Maude Edith.....	F., A.B.....	Los Angeles
McNicoll, Murdock Milton.....	F., A.B.....	Salmon, Idaho
McNutt, Merle Scott.....	F., A.B.....	Glendale
McQuigg, Harry	S., A.B.....	Los Angeles
McSweenq, Margaret Mary.....	S., A.B.....	El Monte
McSweeney, Nellie	U., A.B.....	Los Angeles
MacDonald, Catherine Helen.....	S., A.B.....	Los Angeles
MacLaughlin, Anna Wood.....	F., A.B.....	Los Angeles
Magnuson, Torsten Alexis.....	F., A.B.....	Pasadena
Mahoney, Clarence Henry.....	S., A.B.....	Los Angeles
Malan, Martha Angeline.....	F., A.B.....	Brawley
Malan, William Edward.....	S., A.B.....	Brawley
Malcom, John Sheldon.....	J., A.B.....	Long Beach
Maltman, Clara Alberta.....	F., A.B.....	Los Angeles
Maltoon, Everett Warren.....	F., A.B.....	Los Angeles
Manatt, Hazel Morgan.....	Sr., A.B.....	Los Angeles
Mandeville, Ira Leckie.....	F., A.B.....	Glendora
Mann, Ernest Lee.....	F., A.B.....	Los Angeles
Mapel, Marguerite Carrie.....	F., A.B.....	Hollywood
Mapel, Mary Eleanor.....	F., A.B.....	Hollywood
Marchant, Arte Stanage.....	S., A.B.....	Los Angeles
Marsh, Edward Anthony.....	Sp., B.S.....	Los Angeles
Martin, Charles Emanuel.....	F., A.B.....	Santa Ana
Martin, Leonard Camburn.....	J., A.B.....	Webster Groves, Mo.
Masser, Harry Lascelles.....	S., A.B.....	Montebello
Matheson, Ruth	F., A.B.....	Glendora
Mathis, Edith Elizabeth.....	F., A.B.....	Los Angeles
Mathis, Mabel Catherine.....	F., A.B.....	Los Angeles
Maulsby, Leora Fern.....	F.....	Whittier
Mauzy, Wayne Churchill.....	Sp.	Los Angeles
Mayooender, Tarah C.....	Sr., B.S.....	Bolagarh, India
Mee, Ethel Louisa.....	U., A.B.....	Los Angeles
Mennet, Juanita Inez.....	F., A.B.....	Los Angeles
Metcalf, Edward Newcomb.....	J., A.B.....	Los Angeles

Merithew, Lyle LeRoy.....	S., A.B.....	Binghamton, N. Y.
Michaelis, Esther	S., A.B.....	Somerset
Michod, Mrs. Else M.....	U., A.B.....	Los Angeles
Mitchell, Fred Leroy.....	F., A.B.....	Ontario
Mitchell, Harry	J., A.B.....	Ontario
Moberly, Walter Roy.....	Sr., A.B.....	Los Angeles
Monteleone, Joseph	J., A.B.....	Los Angeles
Montgomery, Wayne Warren.....	S., A.B.....	Simi
Moody, Alice Lucile.....	F., A.B.....	Alhambra
Moody, Egbert Earl.....	J., A.B.....	Ontario
Moore, Camille Anna.....	S., A.B.....	Los Angeles
Moore, Clark Alphonso.....	Sr., A.B.....	Whittier
Moore, Harry James.....	S., A.B.....	Los Angeles
Moorhead, Gladys Evelyn.....	F., A.B.....	Los Angeles
Morrow, Clyde H.....	F., B.S.....	Glendale
Morrow, Ray Leslie.....	F., A.B.....	Glendale
Muller, Sarah Margarethe.....	F., A.B.....	San Pedro
Mulvehill, Walter William.....	S.	Jeannette, Pa.
Murphy, Loretta	F., A.B.....	Los Angeles
Murphy, Ralph Elder.....	S., A.B.....	Los Angeles
Murray, Virginia	F., A.B.....	San Gabriel
Mutthauf, Luie George.....	F., B.S.....	Los Angeles
Myers, Edith Marie Marshall.....	J., A.B.....	Los Angeles
Najai, Tasaburo	Sp.	Shimotsuke, Japan
Nave, Junia	S., A.B.....	Los Angeles
Neighbours, Sidney Webster.....	F., A.B.....	Los Angeles
Nelson, Elizabeth	S., A.B.....	Arroyo Grande
Newell, Kenneth Cuthbert.....	F., A.B.....	Pasadena
Nichols, Loyd Patterson.....	Sr., A.B.....	Ogalalla, Nebr.
Nichols, Margaret Cable.....	F., A.B.....	Glendale
Nixon, Charles Edward.....	Sp., A.B.....	Los Angeles
Noble, Dora Ursula.....	F., A.B.....	Los Angeles
Nuffer, Grace Amelia.....	J., A.B.....	Whittier
Nunamaker, Mabel Winnifred.....	U., A.B.....	Los Angeles
Oakley, Elizabeth M.....	U., A.B.....	Los Angeles
Oerter, Marjorie	U., A.B.....	Santa Monica
Ohara, Tomokichi	S., B.S.....	Los Angeles
Ohno, Noochika	G., A.M.....	Los Angeles
Olmsted, Harry Francis.....	S., B.S.....	Los Angeles

Olver, Manley DeForest.....	F., A.B.....	Los Angeles
Olver, Violet Corrine.....	F., A.B.....	Los Angeles
Owen, William Otway C.....	F., B.S.....	Washington, D. C.
Oxnam, Garfield Bromley.....	S., A.B.....	Los Angeles
Oxnam, Lois	Sp.	Los Angeles
Palmer, Bertha Louise.....	Sr., A.B.....	Compton
Palmer, Ethel Martha.....	F., A.B.....	Compton
Palmer, William Judson.....	J., A.B.....	Pasadena
Parker, William Roscoe.....	S., A.B.....	Los Angeles
Parks, Elizabeth Florence.....	J., A.B.....	Los Angeles
Parmelee, Florence	S., A.B.....	South Pasadena
Parmenter, Charles Leroy.....	G., A.B.....	Los Angeles
Pasko, Ruth Mateline.....	J., A.B.....	Los Angeles
Patterson, Clova Floyd.....	S., A.B.....	Parlier
Paulin, Harold David.....	Sr., A.B.....	Brentwood Park
Paulson, Archie Martin.....	F., A.B.....	Los Angeles
Peck, Claud Elwood.....	F., B.S.....	Los Angeles
Perkins, Voltaire DuBack.....	F., A.B.....	Ashland, Wis.
Perry, Robert Blakeley.....	F., A.B.....	Fullerton
Pesqueira, Claudina	F., A.B.....	San Fernando
Peterman, Russell Wallace.....	S., A.B.....	Los Angeles
Peters, Mrs. Lulu Hunt.....	Sr., A.B.....	Los Angeles

M.D., University of Southern California.

Phillips, Clifford Henry.....	S., A.B.....	Pasadena
Phillips, Harry Francis.....	J., A.B.....	San Pedro
Poggi, Mary Josephine.....	F., A.B.....	Pasadena
Potter, Clyde Harlow.....	F., A.B.....	Los Angeles
Powell, Edna McClung.....	Sp.	San Fernando
Powell, Mary Irene.....	J., A.B.....	San Fernando
Pressman, Lillian Elizabeth.....	Sp.	Los Angeles
Price, Harry Carr.....	F., B.S.....	Los Angeles
Prince, Claude R.....	J., A.B.....	Los Angeles
Ranson, John Roy.....	F., A.B.....	Cleburne, Texas
Rathke, Clark	F., A.B.....	Spokane, Wash.
Reberger, William	S., A.B.....	Moneta
Record, Arthur Willard.....	F., A.B.....	Los Angeles
Record, Helen Alden.....	U., A.B.....	Los Angeles
Reed, Burt Warren.....	U., A.B.....	Los Angeles
Rice, Loren Benton.....	F., B.S.....	Los Angeles

Richardson, Frank Robert.....	Sr.,	A.B.....	Santa Paula
Richardson, Grant	Sr.,	A.B.....	Santa Paula
Rickershauser, Susie Myrtle.....	F.,	A.B.....	Los Angeles
Riggins, Laurelle Marie.....	F.,	A.B.....	Long Beach
Robinson, Irene	S.,	A.B.....	El Toro
Robinson, William Wilcox.....	F.,	A.B.....	Riverside
Robson, John Stanley.....	S.,	A.B.....	Los Angeles
Rodda, Myron Lewis.....	F.,	A.B.....	Venice
Roe, Marinita Bispham.....	U.,	A.B.....	Los Angeles
Rogers, John, Jr.....	Sr.,	A.B.....	
Roome, Harry Verrinder.....	J.,	B.S.....	Los Angeles
Root, Elizabeth Anita.....	F.,	A.B.....	Los Angeles
Root, Frances Fessenden.....	F.,	A.B.....	Long Beach
Rosenthal, Louis Isaacs.....	F.,	A.B.E.	Las Vegas, N. M.
Rowan, Fannie F.....	Sp.		Los Angeles
Rowett, Richard Ruthdge.....	U.,	A.B.....	Long Beach
Rublee, Kenneth Russell.....	F.,	A.B.....	Los Angeles
Ruschhaupt, Theo. Augustus.....	J.,	A.B.....	Fresno
Russell, Raymond Robert.....	Sp.		Los Angeles
Ryan, Bernice Lorane.....	J.,	A.B.....	Los Angeles
Ryan, Sylvia Nigel.....	Sr.,	A.B.....	Los Angeles
Sakai, Kanyu	S.,	B.S.....	Los Angeles
Sakaiyawa, Frav	Sp.		Los Angeles
Sakamoto, Giko	F.,	A.B.....	Los Angeles
Sands, Winifred	U.,	A.B.....	Los Angeles
Saverien, Arnold Egerd.....	S.,	A.B.....	Los Angeles
Saxe, Walter E.....	F.,	A.B.....	Los Angeles
Schabarum, Pedro Karl.....	F.,	B.S.....	Los Angeles
Schreiner, Fred Hartenstine.....	F.,	A.B.....	Los Angeles
Scott, Alice Edith.....	S.,	A.B.....	Los Angeles
Scott, Benjamin David.....	Sr.,	A.B.....	Los Angeles
Scott, Evelyn	F.,	A.B.....	Los Angeles
Scott, Ruth Elizabeth.....	F.,	A.B.....	Hollywood
Seal, Luetta Clarissa.....	J.,	A.B.....	Redlands
Seccombe, Clinton Fisk.....	Sp.		Los Angeles
Seeley, Florence	F.,	A.B.....	Mt. Pleasant, Iowa
Sesma, Ramona Mary.....	F.,	A.B.....	Colegrove
Shearer, Clarence Allen.....	J.	A.B.....	Montezuma, Iowa
Sherman, Mary Bradley.....	U.,	A.B.....	Ocean Park

Sherwin, Ruth Estelle.....	U.,	A.B.....	Los Angeles
Sherwin, William Albert.....	F.,	A.B.....	Los Angeles
Shillington, Edna Pearl.....	F.,	A.B.....	Oxnard
Shoaff, Paul Stevenson.....	F.,	A.B.....	Los Angeles
Shonerd, Roscoe Edwin.....	J.,	B.S.....	Springdale, Nev.
Short, Frank H., Jr.....	F.,	B.S.....	Fresno
Shutt, Herbert A.....	F.,	B.S.....	Pasadena
Sidey, Ruth Marenus.....	F.,	A.B.....	Los Angeles
Sinclair, Adelyn Jeanne.....	Sp.,	A.B.....	Los Angeles
Sinclair, Roscoe	J.,	B.S.....	Los Angeles
Single, Forrest Edwin.....	F.,	A.B.....	Stockton
Skilling, Helen Walker.....	F.,	A.B.....	Soldiers' Home
Skinner, Carl N.....	F.,	A.B.....	Los Angeles
Sloan, Winifred N.....	S.,	A.B.....	San Bernardino
Smart, Esther Winnifred.....	S.,	A.B.....	Ontario
Smith, Calvin Roy.....	F.,	A.B.....	Los Angeles
Smith, Frances Irene.....	U.,	A.B.....	Los Angeles
Smith, Gladys Marilyn.....	S.,	A.B.....	Los Angeles
Smith, Linton Hinds.....	F.,	B.S.....	Los Angeles
Smith, Lillian	S.,	A.B.....	Los Angeles
Smith, Margaret Horrell.....	U.,	A.B.....	Los Angeles
Smith, Ruth Cordry.....	S.,	A.B.....	Los Angeles
Snyder, Edward Charles.....	F.,	A.B.....	Los Angeles
Snyder, Esstella May.....	S.,	A.B.....	South Pasadena
Sowden, Grace Evelyn	J.	A.B.....	Los Angeles
Sowden, Nellie Margaret.....	F.,	A.B.....	Los Angeles
Spaëy, Albra Leota.....	Sr.,	A.B.....	Los Angeles
Spaulding, Albert Burrows.....	F.,	A.B.....	Huntington Park
Speicher, Maude M.....	Sr.,	A.B.....	Los Angeles
Spencer, George Bishop.....	F.,	B.S.....	Sherman
Spencer, Howard Herbert.....	F.,	A.B.....	South Pasadena
Spinks, Leon	S.,	A.B.....	Los Angeles
Squires, Alma Markella.....	Sp.,	A.B.....	Ontario
Stark, Russell Earl.....	S.,	A.B.....	Long Beach
Steffy, Eva Pearl.....	Sr.,	A.B.....	Santa Monica
Stephenson, Clara Crockett.....	Sp.	.....	Los Angeles
Sterry, Nora	U.,	A.B.....	Los Angeles
Stevens, Delight Norton.....	F.,	A.B.....	Los Angeles
Steward, G. Aurelie.....	F.,	A.B.....	Fullerton

Stine, Richard Waldo.....	S.,	A.B.....	Los Angeles
Stone, Ruby Cornelia.....	J.,	A.B.....	Waucoma, Iowa
Stonier, Harold James.....	S.,	A.B.....	Nipomo
Stranberg, Henry Herman.....	Sr.,	A.B.....	Whittier
Stringfield, Raymond Beverly.....	F.,	A.B.....	Los Angeles
Swain, Frank Graham.....	S.,	A.B.....	Whittier
Swantek, Louis	S.,	B.S.....	Los Angeles
Swarts, Clifton Ray.....	F.,	B.S.....	Los Angeles
Sweet, Walter	J.,	B.S.....	Los Angeles
Summers, Shirley	F.,	A.B.....	Fresno
Summers, Eva Elizabeth.....	F.,	A.B.....	Los Angeles
Sumner, William Alvin.....	Sr.,	A.B.....	Los Angeles
Taft, A. Z.	Sr.,	A.B.....	Hollywood
Taft, Blanche Mildred.....	S.,	A.B.....	Hollywood
Taft, B. Y.....	F.,	B.S.....	Hollywood
Taggart, Kathrine	F.,	A.B.....	Los Angeles
Tateishi, Jisaemon	U.		Los Angeles
Taylor, Howard Corbin.....	Sr.,	A.B.....	Los Angeles
Thomas, Helen Lillian.....	F.,	A.B.....	Los Angeles
Thomas, Martha Agnes.....	G.,	A.M.....	Minneapolis, Kan.
A.B., Greenville College.			

Thompson, Edd G.....	J.,	A.B.....	Los Angeles
Thompson, William Ben.....	J.,	A.B.....	South Pasadena
Throop, Waldo G.....	S.,	A.B.....	Los Angeles
Tilroe, Welcome Agnes.....	F.,	A.B.....	Los Angeles
Titus, Mabel Eleanor.....	S.,	A.B.....	Los Angeles
Tompkins, Walter Laurie.....	F.,	A.B.....	Los Angeles
Traynor, Wilfred	Sp.,	B.S.....	Los Angeles
Tritt, Jessie A.....	U.,	A.B.....	Los Angeles
Trotter, Harry Ebert.....	S.,	A.B.....	Fillmore
Trussell, Mary	S.,	A.B.....	Escondido
Trythall, Anna Lavina.....	J.,	A.B.....	Santa Ana
Tupman, Alice K.....	J.,	A.B.....	Los Angeles
Turner, Spence Derrington.....	F.,	A.B.....	Los Angeles
Uber, Edna R.....	Sr.,	A.B.....	Los Angeles
Underwood, Ethel May.....	S.,	A.B.....	Whittier
Van Buskirk, Gladys Mary.....	F.,	A.B.....	Los Angeles
Vande Goorberg, Wilhelmina.....	U.,	A.B.....	Los Angeles
Vaughan, Elizabeth Beatrice.....	S.,	A.B.....	Santa Monica

Vermille, Lee King.....	F.,	A.B.....	Ocean Park
Vermilyea, Frances Doyle.....	F.,	A.B.....	Los Angeles
Vertress, May	J.,	A.B.....	San Jacinto
Volk, Kenneth Quenton.....	S.,	B.S.....	Los Angeles
Wade, Henry Nazer.....	S.,	B.S.....	Hollywood
Walker, Edward Turner.....	F.,	B.S.....	Los Angeles
Wallace, Belle	U.,	A.B.....	Los Angeles
Wallace, Kenneth Clark.....	Sr.,	A.B.....	Los Angeles
Walters, Hazel Belle.....	F.,	A.B.....	Los Angeles
Walters, John Earl.....	S.,	A.B.....	South Pasadena
Walton, Lida Maude.....	F.,	A.B.....	Long Beach
Walton, Munroe Lawrence.....	S.,	B.S.....	Glendale
Warner, Willis Huxley.....	Sr.,	B.S.....	Huntington Beach
Waring, Ruth Ame.....	Sr.,	A.B.....	Alhambra
Watkins, Fred Arthur.....	F.,	A.B.....	Long Beach
Watkins, William H.....	U.,	A.B.....	Anaheim
Watson, Fern Leamah.....	S.,	A.B.....	Pasadena
Weatherhead, Arthur Clayson.....	J.,	A.B.....	Newberg, Ore.
Weaver, Chas. Raymond.....	S.,	A.B.....	Los Angeles
Webb, Hugh Rascal.....	U.,	A.B.....	Los Angeles
Webster, Mercy Anna.....	F.,	A.B.....	Pasadena
Webster, Mary Halleck.....	S.,	A.B.....	Los Angeles
Weir, Edith M.....	J.,	A.B.....	Los Angeles
Welch, Claude Lionel.....	U.,	A.B.....	Los Angeles
Wellborn, Mildred	J.,	A.B.....	Long Beach
Wells, George Randall.....	F.,	A.B.....	El Paso, Texas
Wenk, Elizabeth	J.,	A.B.....	Los Angeles
Werner, Gustav Adolp.....	J.,	A.B.....	Los Angeles
Weseloh, Emilie M.....	J.,	A.B.....	Orange
Wharf, Bess Willard.....	Sr.,	A.B.....	Olney, Ill.
Wheeler, Mildred Lucile.....	S.,	A.B.....	Pasadena
White, Frank Leslie.....	F.,	B.S.....	Rivera
Whitnah, Mildred P.....	F.,	A.B.....	Los Angeles
Whyte, James S.....	F.,	B.S.....	Los Angeles
Wickersham, Newton Wilmot.....	F.,	A.B.....	Los Angeles
Wilkinson, Roy Albert.....	J.,	A.B.....	Los Angeles
Willett, Grace Alice.....	G.,	A.M.....	Los Angeles

A.B., University of Southern California.

Williams, Clinton Wertcott.....	U., A.M.....	Pasadena
	A.B., Indiana University.	
Reiche, Charles F.....	S., A.B.....	Los Angeles
Rice, Nettie Belle.....	U., A.B.....	Santa Monica
Williams, George Howe.....	F., A.B.....	Penn.
Williams, Otis Alfred.....	F., A.B.....	Los Angeles
Wilson, Robert Donald.....	S., B.S.....	Hull, Iowa
Winans, Isadora	J., A.B.....	Los Angeles
Witherell, Edith Hope.....	S., A.B.....	Los Angeles
Woertendyke, Howard Porter.....	S., A.B.....	South Pasadena
Wood, Ella Jane.....	F., A.B.....	Los Angeles
Wood, Glen Frederick.....	S., B.S.....	Glendale
Woods, Richard P.....	Sr., A.B.....	Los Angeles
Woodsum, Anna Vere.....	S., A.B.....	Long Beach
Workman, Thomas Edgar.....	F., B.S.....	Los Angeles
Wright, Lora Melessa.....	G., A.B.....	Los Angeles
Wrisley, Pearl Hayden.....	J., A.B.....	Los Angeles
Wyman, Gertrude B.....	U., A.B.....	Santa Monica
Yerge, Clyde Scott.....	J., B.S.....	Whittier
Yerington, Alice	S., A.B.....	Los Angeles
Yip, Henry U.....	F., B.S.....	Los Angeles
Young, Erle Fiske.....	F., B.S.....	Los Angeles
Young, Eva Lucile.....	F., A.B.....	Los Angeles
Young, Mabel Grace.....	S., A.B.....	Goleta
Zacher, Edwin Fred.....	F., B.S.....	Los Angeles
Zander, Lucille	Sr., A.B.....	Los Angeles
Ziegler, Ethel Grace.....	J., A.B.....	Anaheim
Zimmerman, Lestin Henry.....	F., B.S.....	Riverside

SUMMER SCHOOL—1910

Addison, Janney Thos.	Long, Emmet Stemen
Anderson, Mary	Loomis, Ada
Baker, Mary Emma	Lovelace, Katie Rosemond
Ball, Edith	Magnuson, Torsten Alexis
Barnhart, Percy Spencer	Martin, Leonard C.
Beckett, Wilbur Archer	McCarthy, Elizabeth Carroll
Beckett, Francis Haynes	McCormich, Grace Edith
Bigelow, Emma Lorinda	McGorray, Jeannette Irene

- Bigelow, Irene
Boller, Phil.
Bonoff, Karl Marx
Bostwick, Florence Fern
Bostwick, Genevieve
Bouelle, Frank A.
Bowers, Alice Leilsa
Blev, Florence Marion
Brallier, Mrs. Mary Reber
Brown, G. Frank
Browning, Roberta Etta
Chamley, Otto David
Chelgrene, Silva Dora
Christensen, Serena Paulina
Claberg, Clay
Cocks, Edna Agnes
Cole, Eva
Coleman, Barney Ellerton
Collins, Laura Alice
Coomber, Doris Patricia
Cummings, Mrs. Ida Ella
Doster, Fern Aliva
Eaton, Ralph J.
Eichhoff, Will
Fallas, R. E.
Florcken, Vera
Foster, Emory Alfred
Freundenburg, Mary Pauline
Gesell, Arnold Lucius
Given, Bess Marguerite
Gould, Jesse A.
Grant, Louise
Hendren, Virginia
Henry, George
Horne, Walter Wilton
Hough, Henrietta
Huston, Robert A.
Judkins, Florence Augusta
Karr, Ethel Bernis
Keeney, Florence Alice L.
Koll, Milton Lee
Miller, Susie Edith
Neff, Lawrence Wilson
Oakley, Elizabeth M.
Ott, Ellis W.
Pratt, Evelyn R. A.
Pratt, Marguerite Eugenia
Price, Harry
Price, Edgar Heaton
Priss, John Lawrence
Rebber, Leland Lester
Reed, Wallace Allison
Rees, Nannie Edith
Record, Arthur Willard
Reynolds, Ralph Whitney
Rice, Nettie Belle
Robinson, Ethel Margaret
Rosenkranz, Lena Victoria
Sakai, Kanyu
Schabarum, Margueritte C.
Schwab, Erma B.
Simpkins, Florence
Skinner, John K.
Sparey, Albra
Spicher, Mabel
Stephenson, Hazel
Thomas, Martha Agnes
Thompson, Walter Lee
Timmons, Robert
Vande Goorberg, Wilhelmina
Vermilion, David
Vedder, Dwight Gregory
Wallace, Donald J.
Watkins, William H.
Watson, Victoria Elizabeth
Watson, Lavena Margaret
Weseloh, Emilie M.
Wyatt, Jane
Werner, G. A.
Wenk, Elizabeth

Wharf, Bess Willard
Koll, Harvey Wm.
Knoles, Stella Ellen
Landreth, Lillian Maudee
Liang, Hing Luen

Windener, Margaret Ann
Will, Ellender
Wyman, Gertrude B.
Yashima, Chingo

PREPARATORY SCHOOL

First Year

Baab, Emil Carleton
Babcock, Fay
Baker, Elmo R.
Barrett, Burniss Wesley
Beckett, Francis
Bernays, Dorothy Caroline
Bolton, Arthur Hugh
Bowen, Mary Spencer
Browning, Atala Wood
Burgess, Stanley Kenneth
Castellaw, Clemma May
Chung, Won-Do
Decker, Harold Johnson
Dominguez Jose Herculano
Ensminger, Dee
Fuller, Mary Murriel
Gabrielsen, John
Hall, Hattie Lulu
Kang, Burns
Keeler, Velma Ruth
Keay, William Thomas
Kim, Arthur P.
Kim, Alvin Y.
Kinder, Evelyn Cannon
Kinkaid, John Holland
Lichtenthaler, Fred William
MacDonald, Esther Mary
McManus, Maurice Matthew
Morti, Hugh Albert

Mason, Gilbertine
Miller, Paul Burt
Murao, Sieju
Noll, Cecil Rae
Ogborn, Gladys Henrietta
Racheco, Angie
Peebles, Dorothy
Penner, Edmund
Polkinghorn, John Walter
Porter, Margaret Nettie
Price, Charles Arthur
Price, Mary Catherine
Scott, Claud
Selma, El Arbi Mark
Stebbins, John Roderick
Strong, Hazel Anna
Taylor, Albert
Taylor, Julia Abbie
Thomas, Edith Mary
Torrance, Arthur Frederick
Wallace, Frances Lee
Walters, Ralph Littlejohn
Walton, Florence Elizabeth
Ward, Gladys Barrette
Ward, Gladys Marrietta
White, Ida May
Wilber, Kenneth A.
Wintrode, Isabel
Wyatt, Emma Ruth
Yum, Sylvan W.

Second Year

Allin, Helena	Long, Tirrell Lyman
Barlow, Gladys Anna	Lovelace, Kay Rosamond
Bigelow, Irene	McManis, Nancy Priscilla
Chang, Wilbur K.	McManus, Mark Desay
Chapman, Llewellyn Sidney	Meeker, Leroy Ellsworth
Childs, Beulah	Myers, Ethyl Augusta
Clement, Hallowell Fernando	Neuhart, Florence
Collins, Herbert	O'Neil, Emma Eileen
Cook, Lois Frances	O'Neil, Owen Evan
Denlinger, Ross M.	Palmer, Mabel Caldwell
Dyar, Dorothy Margaret	Parker, Ernest Theodore
Dunsmoor, George Baright	Philbrick, John Van Ness
Earl, Harley	Pinnell, Paul V. M.
Eddins, Carl Morton	Pollard, Sybel Louise
Edwards, Robert Thomas	Priss, John Lawrence
Finney, Walter	Shaffer, Grace Leone
Franklin, Mary O.	Smith, Frank Macpherson
Guthridge, Russell M.	Smith, Wesley Vance
Hastings, Leona Edna	Spencer, Chester B. U.
Hardenburgh, Charles George	Thode, Clarence William
Hill, Gladys Grace	Vogel, Bert F.
Hiscock, Eula Ewin	Westall, Frank
Hubbell, Sadie Myra	Willcox, Lutie Louise
Kennedy, Mildred Frances	Young, Harvey

Third Year

Black, James Preston	Fowler, Hazel Marjorie
Brodbeck, Mary	Gilfillan, Jay Gould
Brown, Nina M.	Girdlestone, Charles Gilbert
Coldwell, William Jackson	Griffin, Herschel Raymond
Castellaw, Homer J.	Griffis, Charles A.
Chamlee, Archie	Harvey, Harriet Anderson
Chan, Edward Spencer	Haupt, William Frederick
Chrysler, Everett Nelson	Humes, Homer
Clark, Loren Tompkins	Joslin, Marion
Crabill, Hazel Dell	Kelley, Gorman Faye

Killion, Earle D.	Scovel, Edith Lavinia
Lee, Andrew B.	Shafer, Leroy Vincent
Locke, Charles Edward, Jr.	Snowden, Mildred Emma
Lovett, Mamie Lewis	Sowden, Harry
McManis, Edward	Spaulding, Irving M.
Mead, Hazel Helen	Stabler, Dwight Wilbur
Miller, Edward Edwards	Sterry, Philip Hood
Moles, Hazel Setitia	Strong, Mildred
Morrill, Lewis Lee	
Moses, Leigh	Tedlock, Culley C.
Obear, William Frank	Thompson, Ralph Sherman
Offenbach, Eloise	Timmons, Robert
Polk, Beatrice Addie	Vallely, Maria Clare
Polkinghorn, William A.	Vanderpoel, Theodore Lewis
Reed, Leroy	Venable, Hazel
Reed, Ruel Lafayette	Ward, Benjamin
Reiche, Clarence W.	Wintrode, Henry Jacob
Reily, Ralph Gamble	Wright, Bert
Schabarum, Margarita C.	Wright, Todd
Scott, George C.	Yashima, Chingo

Fourth Year

Ayers, Loren William	Earl, Carl Everette
Beach, Justus Meadows	Ferrall, George D.
Bovard, Gladys Freeman	Foster, Emory Alfred
Boyle, Louis Morris	Gibson, Bernice Edna
Boynton, Fred Haywood	Gillelen, Lute
Brown, G. Frank	Girdlestone, May
Brophy, Frank	Huston, Robert C.
Burch, Marguerite	Knoles, Stella Ellen
Corneliussen, Frederick A. T.	Lee, Pang Kwan
Chamberlin, Joie Louise	Locke, Lydia Margaret
Chung, Margaret Jessie	Lusk, Edgar William
Coomber, Doris P.	Lyons, Emily Charlotte
Cosby, Albert Bemison	MacDonald, Gladys Rachel
Crowley, James Philip	Meserve, Dorothy Annette
Dalin, Carl Oscar	Nichols, Marguerite
Dyer, Adrienne Ernestine	Obear, Mary Katharine

Ordway, William Floyd
Parker, Edwin Marion
Quale, Fred Lorenz
Rae, Charlotte
Rees, Thomas Duncan
Salsbury, Howard G.
Scott, Otis
Smith, Blake
Stivers, Virginia Irene

Thorne, Elsie May
Tieman, Ida May
Vermilion, David Senton
Wallace, Donald Joseph
Watson, Ernest Alfred
Watson, William Homer
Willcox, Vivian Elma
Wyatt, Jane D.

COLLEGE OF PHYSICIANS AND SURGEONS

Freshmen

Beck, Horace Richard
Blass, Mrs. Rosa Barney
Bonoff, Karl Marx
Brown, James Templeton
Cheesman, Harvey Rollin
Clayberg, Clay
Close, Katherine Margaret
Coleman, Barney Ellerton
Cox, Roy Milo
Craig, John Bryan
Cunnane, Philip John
Curl, Robert Latta

Drury, Edward
Felger, Louie
Hale, Nathan George
Harding, Henry Wilbur
Hegardt, Mrs. Nellie F. M.
Hemphill, Oscar Leon
Hibben, John Severy
Holdridge, Earl Ansel
Holleran, Walter M. (B.S.)
Horton, Jesse Chrisman
Jacoby, Arthur David
Lesem, Alexander Marx

McClurkin, Arthur Archibald
McGilvra, Walter Vern
Misch, Herman
Moffat, Howard Lee
Noot, William Ivor
O'Donnell, Earl William
O'Reilly, Edmund Francis
Perry, Joseph Raymond
Ranson, John Roy
Rees, Clarence Edwin
Ring, John Richard
Rogers, Earl Leroy
Rose, Homer DeWitt
Rosson, Ray Wright
Rothwell, Chester L.
Scholz, Arnold Max
Smith, George Francis
Storkan, Joseph Charles
Thompson, Roy Oliver
Throop, Charles Bailey
Wilson, Robert Donald
Wyckoff, Harry A. (A.B.)
Young, Chas. Stephen
Zacher, Edwin Frederick
Zorb, George Anthony

Sophomores

Bames, Otto	Herrington, Frank James
Bell, Jr., Frank	Jesberg, Simon Henry
Blake, Wendell Phillips	Kelley, Gilbert A.
Bowers, Chester H. (A.B.)	Kittle, Walter Francis
Carter, Ray Alden (A.B.)	Larzalere, Ray Verplank
Chadwick, Benjamin Cole	Lucey, Daniel D.
Citron, I. Jesse	McCrea, Agnes Benford
Dieterle, Karl Lionel	Reeves, James Walter
Dunsmoor, Robert M.	Sands, Raymond Arthur
Eisen, Edward George	Shattuck, Alvin
Felch, Miner Frank	Schwartz, David D.
Fearon, William Max	Smith, Harold Wilbur
Ginsburg, S. S.	

Juniors

Ammann, Francis Xavier	Patric, Gladys Emilia
Avery, Lewis Gorton	Riggs, Norman
Boyer, John Ira	Ronan, Richard Robert
Charleston, Vernon Claude	Smart, Elliott Plummer
Crawford, Mrs. Olive	Stokes, William Ellis
Davey, Edgar Charles	Stone, Mrs. Clara
Deakin, Stanley McClure	Stookey, Byron Polk (M.A.)
Flinn, Homer John	Thurber, Delos Packard
Foye, Frank Alonzo	Thurber, William Grant
Hall, Will E.	Wilson, Loren Everett
Hart, John Franklin	Yager, William Laurence
Hull, Foster Miller	Young, Edgar Nelson
Nelson, Fred Howell	

Seniors

Abramson, Max Jacobs	De Ville, Leon
Boller, Phil (A.B.)	Domann, Arthur Henry
Boyd, Wilbur Travis	
Cocke, John Vinton	Genung, Mabel A.
Collins, Ebert Caleb	Traugher, William Francis

Post-Graduate

Miller, Jr., J. L. (M.D.)

Burrows, C. A. (M.D.)

Special

Felsenthal, L. (D.D.S.)

COLLEGE OF LAW**Freshmen**

Allen, Donald Gillet

Allin, Roy Merton

Anderson, Edward Lewis

Ayers, Arthur Carlton

Backus, Perry Francisco

Bathey, Herbert Theodore

Bell, Oliver William

Belt, Clarence Leland

Benjamin, Irvin Bernard

Berkowitz, Louis Lawrence

Berres, Dora

Bettinger, John Marcus

Black, Ira Woodruff

Blair, Cassius Davis

Blanchard, Lydia

Blasdel, Gilbert C.

Boyle, Lee

Brady, Ernest Lasota

Brassey, Rene Alexander

Bridge, Collie Alton

Brown, Lewis Harris

Browne, Samuel Harrison

Brown, Michael Forest

Bruce, Ray William

Brunk, Ira Leroy

Brunken, James Johnson

Bogue, Charles Bradley

Bromley, Elmer Phare

Burr, Clyde Russell

Cain, Morris Allen

Casey, Walter Tivus

Clark, Marcus Conant

Cobb, Daniel Layton

Colburn, John Wentworth

Corenson, Sam Nathan

Cox, William Lester

Craig, John Joseph

Crane, Burton Briggs

Crawford, Samuel James

Critchley, Daniel Michael

Dawson, John Douglas

Davis, Walter

Dodson, Philip Fortunatus

Donnelly, James

Eberhard, Ray Charles

Field, Edward Lewis

Flowers, Leo August

Foy, Mary Emily

Frankel, Jacob Allan

Frayne, Edward John

Ganahl, Ernest

Gleason, Hallie Earl

Goldman, Harry Aaron

Goodwin, Timothy Chester

Goudy, Curtis A.

Griffin, Charles Jack

Guinn, Howard James

Ham, Walter Asabel

Hastings, James Neil

Hazen, George David

- Heid, Fred J.
Heinecke, William Barker
Henny, Vernon T.
Heskett, Earl Clifton
Hibben, Litta Belle
Hill, Eugene Dalton
Hill, Ivan Lawrence
Hoppe, Arthur Frederick
Hospital, Carmel Alfonso de
Houge, Oscar W.
Hughes, Thomas Raymond
Hunter, Henry Allan
Huntington, Henry Clifford
Hyer, Grainger
Iasigi, Herbert Loir
Jack, Harry Meikle
Jansing, Albert Clement
Jones, Frank Henry
Jordan, Edward Henry
Kidd, Herbert West
Killgore, Albert Russell
Kittrelle, Richard
Krowl, William Vreeland
Lahey, May Darlington
Lara, Fernando de
Leary, John Peter
Legerton, Curtis Clement
Leighton, Hampton Roy
Leonard, Leon Joseph
Lewis, Fayette Arthur
Ling, David William
Little, Kirby Dalton
Lusk, Edgar William
Lyans, Robert Thompson
Lyons, Harry
Mack, Maethilda Eleanor
Manning, Clarence Charles
Mauzy, Wayne Churchill
Miller, Earl Thomas
Milford, Albert Watts
Mills, Simeon Wenban
Mitchell, Archie Delwood
Miyasaki, Motohiko
Moodie, Joseph G.
Moore, Gladys
Mooslin, Constantine Mitchell
Moran, Glenn Logan
Motzkus, Henry Martin
McCarthy, John Daniel
McCormick, Frank Hubert
McDowell, Alfred A.
McDowell, Charles Edward
McGonigle, John Leo
McGrew, Raymond Morrison
MacKnight, George Lee
McNeil, Stanard Ambrose
McPherson, Carlos Verner
Neeson, John Arthur
Normandin, Ovila
Olson, A. Cecil
Orme, William Wall
Park, William Baxter
Parker, William Roscoe
Patten, Francis Alan
Patten, James Longstreet
Perrelet, Raoul Albert
Pickering, Nora Helen
Praeger, Lionel Arnold
Price, Harry Carr
Prince, John R.
Radawitz, Henry Lewis
Randles, James Duncan
Ratzer, Carl Louis
Reeves, Charles Merrick
Rentch, John Carlyle
Rogers, Ernest Elroy
Rogers, Peyton Loring
Rowett, Richard Rutledge

Sakim, Lewis	Taylor, Raymond Stickney
Sampsell, Paul Warren	Thompson, Mark
Samuels, Charles George	Tolle, Frank Hayward
Sawyers, Wade Hampton, Jr.	Trageser, John William
Schulman, Bernard	Turner, Spence Derrington
Schumacher, David Homer	Turney, Frank Bennett
Scott, Charles Elwood	Turrentine, Lawrena Neil
Seccombe, Clinton Fisk	Twombly, Rolph Fred
Shapico, Chaim	Versteeg, Chester J.
Shapico, Paul	Voorhees, Sherman Laucks
Shattuck, Maud Stillwell	Wadsworth, William Henry
Shearer, Clarence Allen	Webb, James Ellwood, Jr.
Shears, Russell	Webb, Richard Wentworth
Sherwin, William Albert	Welsh, John Henry
Shipman, Benjamin William	Wessel, Bernard F.
Shores, Rex	Whitney, Clyde Carl
Simpson, Dorothy Field	Whomes, Frederic Leon
Sims, James Henry, Jr.	Williams, Eugene Dungan
Skinner, Carl Newton	Wood, William Luther
Smith, Harold Ray	Woods, Richard Philips
Soloman, Irl Espy	Woodworth, Clyde Cyril
Spencer, Charles Edward	Woolwine, Louis McClure*
Sproul, Joseph Plummer	Wright, Jacob Marion
Stein, Joseph Julien	Wussow, John Henry
Stephens, William Dennison	Yamatani, George Jilodo
Stockton, Absolum Henderson	Young, Joseph Wesley
Taylor, Charles Edward	Zacher, Edwin Frederick
Taylor, George Leslie	

*Deceased.

Juniors

Bacon, Christian Ott	Brown, Joseph Edgar
Baird, Charles Roland	Burke, Pascal H.
Baker, Charles Frederick	Cass, Phillip
Baker, Ivan	Cate, Clyde Elton
Benkert, Robert	Chandler, George Gregg
Blythe, Minor LaVerne	Childers, Charles Leroy
Bowring, Lynden Flash	Church, Max A.
Bowser, Vincent Eril	Craig, Clarence Elliott

Daniels, Earl Martin
 Decker, Herbert Adolph
 Dennis, Alfred Earl
 Donnelly, Charles Edward, Jr.
 Dwelle, Harold Edward
 Ensley, Oliver P.
 Farman, Charles Hugo
 Foss, Floyd Samuel Parker
 Foster, Abram H.
 Gallegos, Rafael Maria
 Gates, Walter Solomon
 Geoffrion, Victor Oscar
 Gibbs, Elliott
 Gyger, Jesse Alexander
 Hanley, Robert Lawrence
 Hansen, Julius
 Harrell, Maxwell
 Henderson, Lewis Adams
 Herd, H. M.
 Hole, Morris Clifford
 Holton, Charles Rufus
 Hood, Randall John
 Houghton, William Lake
 Ingalls, Everett Alden
 Janeway, George Harold
 Johnson, Benjamin Herbert
 Keogh, John Francis
 Leake, Ellison Orin
 Leovy, James Gillmore
 Maddock, Robert E.
 Martin, Louie Frear
 MacDonald, Alfred Francis
 McDonnell, Thomas Matthew
 McEuen, William Wilson
 Mellen, John McD.
 Miles, John Cullen
 Miller, James Launtz
 Millikan, Charles English
 Mishler, Cassius C.
 Mitchell, Robert
 Mitchell, Robert Hatfield

Moeur, John Hubbard
 Moore, Arthur Donaldson
 Neilson, Iener Westring
 Noon, Ernest Eugene
 Padan, Charles Franklin
 Patrosso, Julius Victor
 Perkins, George William
 Peterson, Fred Eskild
 Phelps, Charles Richard
 Raymond, Emil
 Randall, Arthur
 Rosenkranz, Elias Victor
 Rouse, Albert Frank
 Russell, Raymond Robert
 Sale, Henry Theodore, Jr.*
 Schwartz, Hyman
 Sellers, Benjamin Franklin
 Smith, Kenneth
 Snyder, William Cloyd
 Spalding, Thomas Richard
 Stevens, Walter Hayes
 Stillwell, Fred Charles
 Stuart, David Daniel
 Sumner, William Alvin
 Taggert, James Deacon
 Thomas, William LeRoy
 Travis, W. I.
 Tribit, Charles Henry, Jr.
 Trude, Fred James
 Tuttle, George Wilson
 Van Etten, Claire Trumbo
 Vaughan, Vincent Bibb
 Visel, Jack Angele
 Visel, Stanley Augustus
 Wackerbarth, Henry Owen
 Walker, Hugh Kelso, Jr.
 Whitehead, Lewis Emery
 Widney, Erwin Wilson
 Wilson, Chris, Jr.
 Wilson, Robert Gordon
 Wright, Alfred

*Deceased.

Seniors

Allen, Clifton Royal	Leitch, Alexander Young
Allen, Francis Edward	Leonard, Raymond Anthony
Allen, John Sherman	Lobdell, J. Karl
Backus, Earle Knowles	Maurice, Guy Erhardt
Benedict, H. Stanley	McDonald, Donald H.
Chamberlin, Harry Audry	McMahon, John Joseph
Coleman, William	Miles, William, Jr.
Converse, Norris May	Montgomery, Plummer
Culver, Richard Joseph	Multhauf, Christopher Joseph
Curtin, George Rogers	Musgrove, John Joseph
Decius, John Harman	Nolan, Edward James
Dietrich, Edward	Norton, Richard Henry
Doherty, Frank Patrick	Nourse, Paul
Donnell, Horace	Parker, Elizabeth Yager
Duggan, Frank Alphonse	Patten, Sarah Elizabeth
Durbin, William Reese	Phelps, John
Fairbanks, Frederick Cole	Potter, Charles Guy
Fitzgerrell, Ray Hartley	Risdon, Frederick Ray
Forward, Charles Hamilton	Rivera, Robert Parfirio
Fujii, Sei	Robinson, Oliver Raynor W.
Gardner, Chauncey Edgar	Roberts, Ravid Berwyn
Gault, Donald	Rosecrans, Leo Marmaduke
Green, Arthur William	Salzman, Maurice
Haggart, Alex. McKenzie	Shafer, Jesse Reno
Hardy, Rex Giffen	Showers, Victor Paul
Hill, John James	Stepper, Arthur Garfield
Hines, John Martin, Jr.	Thompson, Roland
Hyter, Sidney Samuel	Tolhurst, Louis Hodgman
Ingle, Samuel Gordon, Jr.	Tritt, William Winters
Jarrott, James Smith	White, Thomas Patrick
Jarrott, Robert Adams	Wheelock, Ray Hoover
Kelley, William Pliny	Wisdom, Earl Leslie
Land, Jesse Mearl	Woolwine, Clare Wharton
Lawlor, Reed Morris	Whitworth, Walter

Post-Graduate

Bagley, Charles Leland	Chandler, Moses
Bowers, Walter	Hanna, Byron C.

Helm, Gratz Wilson
Hutt, James

Miller, L. L.
Schlegel, John

Summer School, 1910

Archer, Allan Thurman
Atkins, Charles Lewis
Backus, Earle Knowles
Benedict, Stanley
Blythe, Minor LaVerne
Brown, Joseph Edgar
Brunk, Ira Leroy
Cate, Clyde Elton
Coleman, William
Crawford, Samuel James
Culver, Richard Joseph
Donnell, Horace
Duggan, Frank Alphonse
Durbin, William Reese
Ellis, Thomas Earl
Frankel, Jacob Allan
Gardner, Chauncey Edgar
Hanna, Byron C.
Hibben, Litta Belle
Hood, Randall John
Horton, Ray L.
Hurd, H. M.
Iasigi, Herbert Loir
Jack, Harry Meikel
Jarrott, Robert Adams
Jordan, Edward Henry
Kelley, Loyal Clair
Kittrelle, Richard
Lara, Fernando de
Lobdell, J. Karl
Martin, Louie Frear
McDonald, Alfred Francis
McDonald, Donald H.

McGonigle, John Leo
McMahon, John Joseph
Montgomery, Plummer
Mooslin, Constantine M.
Naugle, Harry David
Nolan, Edward James
Perkins, George William
Phelps, John
Potter, Charles Guy
Risdon, Frederick Ray
Rivera, Robert Parfirio
Robinson, Oliver Raynor W.
Rogers, Ernest Elroy
Samuels, Chas. George
Satterwhite, Walter
Schulman, Bernard
Schwartz, Hyman
Sellers, Benjamin Franklin
Shafer, Jesse Reno
Showers, Victor Paul
Spalding, Thomas Richard
Stepper, Arthur Garfield
Stuart, David Daniel
Sumner, William Alvin
Tolhurst, Louis Hodgman
Travis, Washington Irving
Tritt, William Winters
Tuttle, George
Voorhees, Sherman Laucks
Welsh, John Henry
Whomes, Frederick Leon
Wilson, Robert Gordon
Wisdom, Earl Leslie

COLLEGE OF DENTISTRY**Freshman Class**

Anderson, Harold	Noxon, Herbert L.
Andrews, Earl Robert	Parker, J. T.
Bailey, Milton	Powers, Geo. F.
Bedford, W. E.	Rohrbacher, E. C.
Farwell, Gerald C.	Ratliff, Clinton
Hale, Nathan	Symmes, Carrick W.
Holcombe, Jerry	Swift, Hugh M.
Iwata, K.	Schildwachter, Geo. H.
James, C. W.	Siewert, A. D.
Kesling, E. C.	Turner, J. C.
Langton, Geo. A.	Thomas, H. G.
Lynch, John	Thompson, S. H.
Nall, H. Bert	Wells, R. B.
Nicholson, W. H.	

Junior Class

Baumgardner, E. W.	Reid, E. C.
Cannon, Earnest E.	Russell, Clinton D.
Coldwell, R. L.	Schweiger, Geo. F.
Cram, Frank H.	Sparks, P. A.
DeCow, Chas. L.	Straub, H. E.
Davies, Oliver W.	Sutton, C. L.
Kelly, E. H.	Tanaka, Frank F.
Nall, H. W.	Todd, G. C.
Nokes, I. D.	Wiggins, Chas. G.
Payette, A. A.	Williams, Frank A.
Peden, Thos. R.	Wilson, John M.
Pool, C. H.	Yamaguchi, M.
Puckett, C. W.	

Senior Class

Algeo, Walter S.	Bailey, H. Page
Bidwell, H. H.	Baskerville, Ralph

Brownell, Lester G.
 Crawford, J. F.
 Crew, Leila
 Craven, E. A.
 Day, Chester A.
 Fukasawa, Harry J.
 Glassell, H. P.
 Henderson, M. M.
 Jackman, G. Floyd
 Jackson, A. C.
 Kelsey, Mark
 Kendrick, Jas. G.
 Maclin, John
 McCoy, John R.
 McElhaney, M. A.
 McKee, J. R.
 Mitchell, Fred W.

Moore, Leon D.
 Moore, G. W.
 Nance, Ed. F.
 Pertson, Louis A.
 Roberts, Earl K.
 Sargent, Ray
 Schildwachter, Harry
 Snipes, Thos. W.
 Smale, John
 Smith, John
 Smith, Hyrum G.
 Smithers, J. Edward H.
 Sunderland, E.
 Stover, W. T.
 Worth, C. E.
 Yates, Ed.

COLLEGE OF MUSIC

Aber, Ruth
 Ayers, Lucile
 Barnett, Rena
 Backstrand, Lillian
 Bernays, Dorothy
 Bailey, Richard
 Ball, Bessie
 Black, Lena
 Boggs, Ina
 Boggs, Aura
 Binz, Maude Frances
 Brown, Stella
 Broadbridge, Martha
 Carpenter, Thankful
 Carson, J. R.
 Carson, Gladys
 Cannon, Laura
 Chamberlin, Joie
 Charles, Helen

Chase, Florence
 Chan, Katherine
 Cole, Florence
 Clark, Isabelle
 Clark, Agnes
 Clemmons, Eleanor
 Colvin, June
 Coyne, Ethel
 Creciat, Jennie
 Cummins, Edna
 Cooper, William
 Davidson, Esther
 Dinsmore, Lura
 Dinsmore, Marguerita
 Durst, Walter C.
 Dragstrem, Rolla
 Dovaine, Josephine
 Etz, Helen
 Elliott, Verne

Ellis, Leila
Ferrahian, Mrs. Y.
Ferguson, Margaret
Freeman, Marcea
Flick, Gertrude
Fulton, Eleanor
Hassler, Clara
Harper, Julia
Hirst, Harry
Hogue, Eleanor
Howland, Mrs.
Hospers, Eva
Humelbaugh, Mrs. A. C.
Hunter, Fann
Hollman, Mrs. J. E.
Johnson, Elma
Insley, Marguerit
Kraemer, Amm
Kuster, Mrs. E. G.
Knesel, Florence
King, Ula
Lawson, Nellie
Lancaster, Earline
Locke, Ruth
Lincoln, Bessie
Mallory, Frances
Maulsby, Fern
Mattoon, E. W.
Mayer, Vera
MacDonald, Catherine
MacLaughlin, Anna W.
McGill, Myrtle
Melick, Lillian
Mennett, Juanita
Meneley, C.
Miller, Mrs. W. A.
Miller, Frances
Meyers, Chalmers
Murdock, George

Moore, Virgie Lee
Murphy, Loretta
Nave, Junia
Neuhart, Florence
Osborn, Winona
Ormsby, Carrie
Ogborn, Gladys
Paulin, Ollie
Palmer, Edith
Pezzoni, Millie
Poggi, Ruby
Price, Ellen
Prince, Verne
Reiche, Charles
Rathke, Mabel
Rice, Percy
Schultz, R. E.
Sanders, Hazel
Schoeller, Marjorie
Smith, Ethel
Smith, Leonard
Sevier, Carrie
Shields, Mildred
Shillington, Edna
Skilling, Helen
Snyder, Evelyn
Spencer, Sibyl
Snedecor, Ada
Spaulding, A. B.
Stephenson, Clara
Stephenson, Effie
Sparey, Marjorie
Stalker, Elsie
Stone, Ruby
Swain, Frank
Travis, Adelaide B.
Thomas, Helen
Thomas, Edith
Terry, Ebbie C.

Tucker, Myrtle
Taft, Mrs. L.
Trussell, Mary
Vignes, Edwine
VanBuskirk, Gladys
Venable, Hazel
VanAken, Gertrude
West, Ruth
Wheeler, Mildred

Walton, Florence
Wrenn, Marie
Wiles, Edna
Wittie, Minnie
Wildey, Fern
Wilson, Justine
Wright, Mary Maude
Young, Mr. E.

COLLEGE OF FINE ARTS

Anders, Grace
Anderson, Alfa W.
Ashton, Ethel
Barr, S. Mrs.
Barron, J. D.
Barton, Roberta
Borum, Anna
Bridges, Emma
Brown, Fred
Calla, S.
Carter, Mrs. Mary
Chancellor, Wilhelmina
Chandler, Mrs. Edith
Chaddock, Marion
Conner, Iris
Coulter, Mrs. C. H.
Cronewett, Clara M.
Cock, Alma
Dent, Cladys
Dye, Ethel
Ellis, C. G.
Eskirifge, R.
Feigl, Arthur
Fitch, A. L.
Finney, Ruth
Flippen, Jessie
Foster, Elizabeth
Foster, Francis

Gleason, Elizabeth
Green, Mrs. C. E.
Greenshaw, Ursula
Gilchrist, Meda
Grant, Lillian
Halquist, Signe
Harlan, L.
Haynes, Marguerite
Hipple, H. B.
Hanlot, Leona M.
Harvey, Harriett
Hugus, Louisa B.
Harlan, Mary
Ingle, Henrietta
Ishida, K.
Jones, Florence
Jones, Bertha
Jordan, Dr. M. E.
Kelsey, Margery
Kaltmeyer, Hulda
Lauman, Hester
Langston, Lucy
Lickley, Mrs. M. F.
Lewis, Helen
Lynell, Lena M.
Lyon, James
Martin, Ellsworth
Meadows, Lorena

Maddox, Lelia	Strickland, Mrs. C. S.
Miner, Alice	Schmucker, Sara
Moorehead, Theodora	Sargent, Florence
Macnabb, Mrs. J. E.	Sanborn, Fern
Martin, Mrs. A.	Swartz, Eva
Newby, Mrs. R.	Scott, Stella
Newel, Bertha	Speer, Etta
Olson, Louise	Swift, Mrs. L. C.
Palmer, Edith	Thorne, Ina
Pestor, Olive	Takahasa, K.
Peterson, Agnes	Towner, Xarifa
Parmalee, Clara	Vignes, Marguerite
Price, Miss	Weaver, Mary
Price, L. S.	Worsham, Helen
Petrie, Adie	Ward, Helen
Ross, M. E.	Wirz, Freda
Raphke, Mabel	Wimer, Alice
Russell, Mary	Wilson, Justine
St. Gaudens, Mrs. L.	Wolfe, Lette

COLLEGE OF PHARMACY

Juniors

Brooks, Donald B.	Meiser, Geo.
Burns, Chas.	Peloubet, Edith
Benson, Frank	Patton, Carl
Burton, Lee C.	Pole, W. C.
Chambers, W. L.	Prather, Virgil
Fancher, Clark	Prewett, W. C.
Gant, Fred H.	Ridgway, Archie
Haines, Newell L.	Robinson, Clyde G.
Hartley, Harold	Sinclair, S. Lunita
Kudo, Kananee	Shepherd, C. J.
Jeffers, A. T.	Ting, Darwin
Jolly, P. B.	Thacker, Edna
Johnson, Ed.	Wentworth, L. H.
Lindenbaum, Samuel	Wilhite, E. C.
Masterson, Gus	

Seniors

Bohlken, Geo.	Haygood, Paul
Browning, F. L.	Jewett, O. F.
Cooley, Oliver	Kalliwooda, H. K.
Mazy, Eugene	Pilcher, B. C.
McGarvin, R. H.	Pilcher, Theodore
Morris, G. T.	Schelling, Arthur
Drumm, C. M.	Strait, Emma
Dutcher, A. J.	

MACLAY COLLEGE OF THEOLOGY**Junior Class**

Bolton, Arthur H.	Murakami, P. K.
Branton, Harry	Sanderson, Nelson F.
Brode, Alverda	Stark, Earl Russell
Chaffee, Ralph	Worley, Mrs. R. E. (A.B.)
Cole, Walter B.	

Middle Class

Akimoto, K.	Smith, Harold J.
Cooper, H. C.	Smith, W. Vance
Kimora, A. Y.	Stone, Mardiros K.
Shumway, Charles W.	Tamora, P. K.

Senior Class

Clark, Howard B. (A.B.)	Roberts, Chas. W. (A.B.)
Coyne, Robert J.	Ross, Fred
Edward, Frank C.	Saylor, Oliver (A.B.)
Fodr, Don S. (A.B.)	Shepherd, Harry
Hilmer, Henry F. (A.B.)	Smith, Fred A.
	Smith, George
Ito, Heijiro	Speight, William D.
Kienle, J. E. (A.B.)	Stewart, G. W.
Perry, Esek H. (A.B.)	Summers, W. L.
Reberger, William (A.B.)	Talbott, E. Guy

COLLEGE OF ORATORY**Private**

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Amis, Joyce	Marshall, Ruby
Arnold, Ruth	Marshall, June
Berryman, Olive	Metcalfe, Ethel
Brown, Myrtle	Moses, Marian
Browning, Fred L.	McComas, Ethel
Burch, Lucile	McDonald, Florence
Chemberlain, Fred	McGorray, Jeannette
Cole, Donald	McKnight, Jas. S.
Cronemiller, Flora	Padan, C. K.
Converse, U. M.	Piper, C. E.
Crowell, Mrs. Minnie	Potts, Ada L.
Delano, Grace	Preston, Alice
Dickens, Mrs. Maude	Robinson, Irene
Ensley, Oliver P.	Romig, Edith
German, Nita	Ross, Fred H.
Hanna, Tacie	Smith, F. A.
Hayer, Grace	Stivers, Virginia
Hensel, Gretchen	St. John, Anna L.
Hollister, Bertha	Ward, Gladys
Keeney, Florence	Woertendyke, Mrs. J. H.
La Fetra, Gladys	Ziegler, Ethel

Class

Amis, Joyce	Burgess, Stanley
Arnold, Ruth	Call, Asa
Barlow, Hazel	Cole, Mrs. O. M.
Berryman, Olive	Cronemiller, Flora
Benjamin, I. B.	Delano, Grace
Branton, Harry	Dickens, Mrs. Maude
Branton, Mrs. H.	Dick, Samuel
Brown, L. H.	Everett, Edward
Brown, Myrtle	German, Nita
Burdick, Ruth	Gyger, H. A.
Burch, Lucile	Hanna, Tacie

Hayer, Grace
Henderson, Randall
Huntington, Harry
Hollister, Bertha
Ito, Heijiro
Keeney, Florence
Keogh, C. E.
Krowl, Wm.
La Fetra, Gladys
Lund, Pauline
Long, Ethel
Marshall, Ruby
Marshall, June
Metcalf, Ethel
Moses, Marion
Murphy, Ralph
McComas, Ethel
McDonald, Florence
Parker, Ernest
Patrosso, J. V.
Potts, Ada

Preston, Alice
Robinson, Irene
Sanderson, N. F.
Schwartz, H.
Shepherd, Harry
Skilling, Helen
Spencer, Alvin
Stewart, Geo.
Sproul, J. P.
Stivers, Virginia
Stewart, J. D.
Stark, Russell
Stonier, Harold
St. John, Anna
Thompson, E. G.
Wallace, Kenneth
Ward, Gladys
Watson, Fern
Wheeler, Mildred
Ziegler, Grace

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